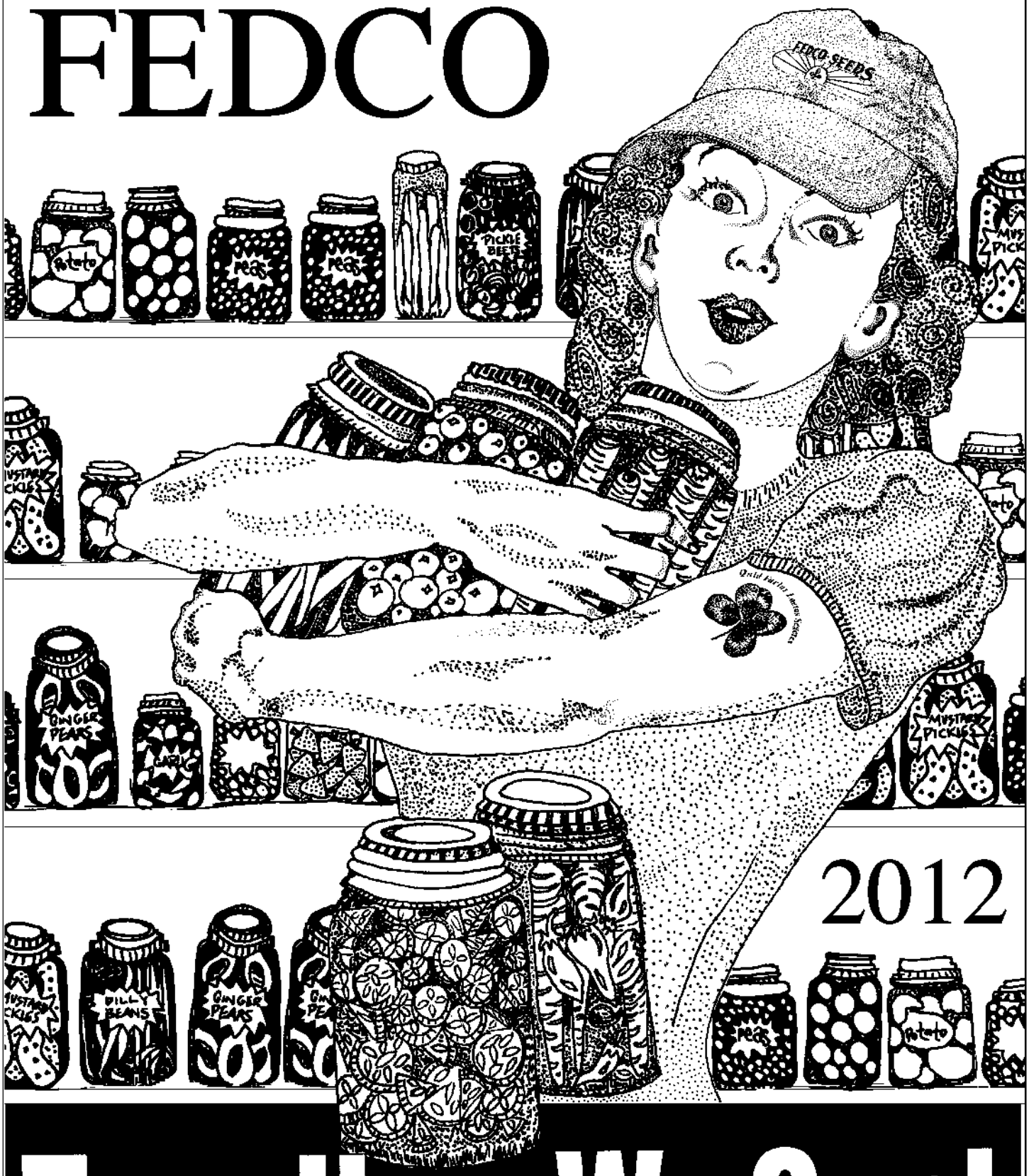
FEDCO



2012

Together We Can!

Ordering information

Fedco Division	Goods offered	Descriptions begin	Order form	Discount deadline	Ordering deadline	Shipments
Seeds	vegetables, flowers, & herbs	page 18	page 74A	none	mail: Mar. 23 online: Sept. 30	January 5–April January 5–Oct.
Moose Tubers	seed potatoes, onion sets	page 104	page 74C	March 2	March 16	April 2–early May
Organic Growers Supply	soil amendments, cover crops, tools, supplies & books	page 114	page 74E	none	none	year-round

Our FEDCO TREES catalog, available in October, lists fruit trees, berry bushes, ornamentals, perennials and tender bulbs.
Our FEDCO BULBS catalog, available in June, lists fall-planted flowerbulbs and garlic.

Full Index on Back Cover

A Fedco Primer for New Friends and Old

Fedco has four divisions: Seeds, Moose Tubers and Organic Growers Supply, Trees, and Bulbs, and sends out three catalogs annually. We work out of three warehouses in Clinton, Maine. Our business office is in nearby Waterville but will soon move to Clinton. We do not have a retail store. We deal exclusively by mail and internet orders except during designated pickup and public sale days, our booth at the Common Ground Country Fair, and periodic visits to other special events.

In our part of the world frosts can occur nine months of the year and the ground can be frozen for about five months from late November until mid-April.

Trees are alive, highly perishable, must be kept cool and wet and cannot freeze. We ship trees and perennial plants only in the spring.

Fall bulbs and garlic are alive, perishable, need to be kept cool but cannot freeze. We ship only in fall just before planting time.

Seed potatoes and onion sets are alive, perishable, must be kept cool but cannot freeze. We ship only in April and May**.**

Seeds are alive, dormant, must be kept cool and dry, may freeze if kept dry. We ship peak-season orders in January–early spring. From April–early October we ship internet orders only.

Books and supplies are not alive. We ship year-round. We ship **cover crops**, which are alive, year-round when available.

How to Order

Order online at www.fedcoseeds.com.

Mail your order to:
Fedco Seeds
PO Box 520
Waterville, ME 04903.

All mail orders must include check, money order, or Visa or MasterCard information. Orders under $25 please pay with a check or money order. Please do not send cash. Sorry, we do not accept food stamps.

Please *do not* use certified or express mail—they *delay* our receipt of your order.

Each division has its own order form.

- Please use the proper order form for each division.
- Please do not mix orders from separate divisions on one form.
- You may send in separate forms from more than one division at the same time and pay with one check. Figure totals for each division on the proper form, then add division totals to figure your grand total.
- Use a 2012 catalog. Don't have one? Please request a current edition.

Fedco Gift Certificates

Send us payment for the amount of the certificate, the name of the recipient, where to send the certificate and whether to enclose a catalog. We will mail your certificate right away. Fedco gift certificates may be used to order from any of our divisions.

Fedco Facilitation
phone: (207) 873-7333
email: questions@fedcoseeds.com

Regular phone hours: Jan.–May 15, Mon–Fri, 9am–4pm.
We are available Wednesdays and at irregular hours the rest of the year.
Contact us to:

- Request more catalogs or order forms. These may also be downloaded from our website.
- Get answers to ordering questions.
- Receive freight quotes and prices for bulk quantities for Moose Tubers & Organic Growers Supply.
- Resolve problems.

Often we are most efficiently able to provide service by email. We will reply to your emails as soon as we can. Please do not email and call about the same issue without first allowing us a few days to respond.

We are committed to offering reasonably priced quality products and to providing fair wages for our worker cooperative members. We ask your cooperation in helping us keep our labor costs and our prices down by avoiding the following calls or emails which add costs without offering you benefits:

- Online orders: If you received an order number, we have your order. If you have not received a confirmation email, email us and we will send you another copy.
- Frozen spuds: We cannot ship potatoes until April because we do not have a potato storage facility. Seed stock arrives at the end of March.
- Nervous Neds & Nellies: For seeds and supplies please allow at least 2–3 weeks after sending order before calling. For spuds, see above.
- Order corrections: For one or a few mistakes please mail back the correction form on the back of your invoice instead of calling.
- Deadline dilemmas: At, around, or just past deadlines, please send in your order. We'll do the best we can. Please do not call.
- Way past deadlines: We take order deadlines seriously. Please remember the refrain of Red Sox and Braves fans and "Wait till next year!"

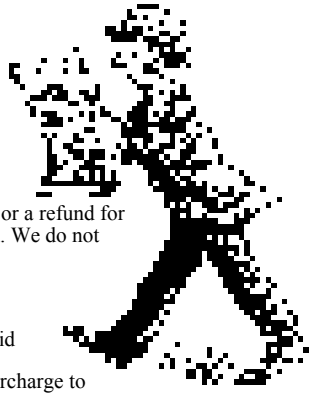
Visit our Website:
www.fedcoseeds.com

- to order online.
- to download order forms and catalogs.
- for up-to-date information on backorders and out-of-stocks for all divisions.
- to access online specials that arrived too late to make the catalog.
- to see photos of some of our cultivars.

Original art: John Bunker, Phoebe Bunker, Laura Childs, Gene Frey, Ian Jerolmack, Jennifer Jones, Samantha Jones, Wendy Karush, Jocelyn Langer, Alicia Letteney, Margaret Liebman, Yvonne Montpelier, Rachel O'Meara, Ryan Parker, Pippa Stanley, Lindsay Robbins, Bria Sanborn, Leslie Stem, Sue Szwed, Gabriel Willow
Seeds copy: CR Lawn
Seeds cultivar selection: Roberta Bailey, Nikos Kavanya, CR Lawn
Moose Tubers copy: Margaret Liebman
OGS copy: David Shipman
Editor: Susan Kiralis
Layout: Laura Childs, Gene Frey, Alicia Letteney, Bria Sanborn

All of our seed is untreated.

How to Order Seeds



- Order online or use our 2012 seed order form in the center, page 74A. **Please, no lists.**
- Order books and cover crop seed from Organic Growers Supply, see p. 4.

We will charge your credit card when we receive your order. We will send you a bill or a refund for any adjustments as each order is completed. We do not charge the adjustments to your credit card.

New This Year

- We've expanded our selection of hybrid tomatoes.
- We've eliminated the 15% shipping surcharge to Alaska and Hawaii.
- We've eliminated the 1% organic grower discount.
- We've instituted a 1% consumer member discount. To join Fedco as a consumer member, see page 10.
- Membership has its benefits! For member specials see # **280**, #**1683**, #**2079** and #**5330**, offered first-come, first-serve **to members only** while supplies last.

Deadlines

- Peak-season orders (by mail & online) accepted thru Fri. Mar. 23.
- Off-peak orders online only until Sept. 30 (limited selection, prices on items 1-6499 good till Sept. 30, 2012. 2013 catalog comes out in December.)

Discounts

All discounts are figured from the adjusted total on your order sheet.

Volume discounts:

Orders over $100 deduct 10%
Orders over $200 deduct 15%
Orders over $300 deduct 20%
Orders over $600 deduct 22%
Orders over $1000 deduct 24%

Repeat orders over $50 qualify for the same volume discount as the first order, provided they are sent to the same address.

Consumer member discount: Consumer members of the Fedco Cooperative deduct 1%. To join, see page 10.

Handling Charge

- All seed orders under $30 add $5 handling charge. This charge applies regardless of how much you ordered from other divisions.

Group orders See page 74.

No Returns

- No returns or exchanges of seed. If you bought it, it's yours! See limited guarantee for defective products, only.

Sales tax

Maine residents and pickup customers only pay 5% on **all** seed. Maine farms and retailers: Please send us a copy of your state resale certificate or farm exemption. Otherwise we must charge sales tax.

There is no sales tax on orders shipped outside of Maine.

"What an awesome company! I greatly appreciate the free shipping and volume discount plus the many bulk and organic options."
—Heidi Accola,
North Freedom, WI

Delivery

UPS/Priority Mail

- **Free shipping for seed orders over $30 (items 100-6499).**
- We ship via UPS ground or USPS Priority Mail; our choice, based on weight.
- We pull and ship orders according to the date we receive them.
- We ship orders as soon as possible, often within one week of receipt, always within two weeks.
- **We begin daily shipping of seed orders on Jan. 5.**
- If you'd like us to hold your order for a later shipping date, please attach a note to your order form.
- From May to early Oct. we ship once a week, usually Wednesday.
- Missing your shipment? Allow 2–3 weeks from your mailing date, then contact us.
- We do not ship to Canada. Canadian customers must provide a stateside shipping address.

PICKUP Come to our warehouse in Clinton. See the map on page 4.

Seeds and OGS pickup peak season We will send a confirmation postcard with directions and your order number when your order is ready to pick up (within 1–2 weeks of receipt of order). Pick up at our warehouse, **Wednesdays and Fridays only** through April 20, 9:00–3:00. Sorry, no other weekdays or weekends, except Tree Sale.

Tree Sale pickup Friday & Saturday, April 27–28 (preorder customers only), and May 4-5 (Public Tree Sale) 9:00-3:00 each day. Order by April 13. *Note: Seeds will be at the Seeds warehouse on the Bellsqueeze Road, not at the new Trees warehouse, down the hill on the Hinckley Road.*

Seeds pickup off-peak season After the Public Tree Sale, Wednesdays only, from 9:00–noon, through September.

OGS pickup off-peak season After the Public Tree Sale, Wednesdays only, from 9:00–3:00.

Backorders are items not available at time of shipment that come in later. Our aim is to minimize them.

- For orders with only one A-size or B-size packet on backorder we will automatically out-of-stock the item, and complete the order.
- Early orders have the most backorders.
- We ship backordered items needing an early start ASAP after we receive them.
- We batch other backordered items to reduce our shipping costs.
- Allow several weeks after receipt of your first shipment for direct-seeded backorder items.
- Orders received after March 9 will be filled from available remaining stock. No backorders.
- We will ship all backorders by March 23. Please contact us if you are still missing any backorders or have not received a refund by April 6.
- We enclose your INVOICE with the first shipment.
- We include any REFUND with the final shipment.

Substitutions See p. 74 for our substitution policy.

Bulk Orders

- To order quantities of four or more times the largest size listed here please email **seedquality@fedcoseeds.com** for availability and price quote. Use a line on the order form for each quoted deal.

We accept **Computer-Generated Order Forms** that *follow the exact format* of our order form.

- Place columns in the same order with the same information.
- Eliminate or move to the right added information, such as item name.
- Make subtotals every 20th, 40th, 60th, 106th, 152nd, 200th item.
- Insert breaks every fourth item with a heavy line or by skipping a line.

Using a spreadsheet to order? Please see p. 11 for item-number changes and adjust your spreadsheet **before** you order:

"Free shipping is a pleasant surprise these days!"
—Tommie Kelley, Shoreview, MN

Fedco Seeds guarantees that all items we offer are fully satisfactory. If you are dissatisfied because of any product defect, we will either replace the item or refund the purchase price.

Limitation of Liability

Because good results depend upon weather, soil and cultural practices over which we have no control, we limit our liability in all instances to the purchase price of the seeds, as is customary in the seed trade. The liability of Fedco Seeds for breach of warranty, or any loss or damages arising out of the purchase or use of our products, including loss or damages resulting from any negligence whatsoever on our part, or strict liability in tort, shall be limited to the purchase price. By acceptance of the merchandise, the buyer acknowledges that the limitations and disclaimers herein described are conditions of sale, and that they constitute the entire agreement between the parties regarding any warranty or liability.

Claims for errors in your order must be presented within 30 days of receipt of your order. Claims for defects in Fedco Seeds' products should be presented to Fedco Seeds as soon as possible after discovery. Failure to assert claims within 30 days after discovery renders this warranty null and void.

Avoid playing telephone tag!

Use **seedquality@fedcoseeds.com** to contact CR Lawn directly for:

- Quality issues: germination, trueness to type, etc. for *seeds (items 1-6499) only.* Use Fedco Facilitation **questions@fedcoseeds.com** for OGS or potato problems.
- Bulk price quotes: Seed division *only*
- Seed rack orders
- Seed school store orders
- Variety suggestions
- Press contacts

Requests for donations, order corrections, and other queries use Fedco Facilitation **questions@fedcoseeds.com**.

During peak season we respond quickly. During off-season, response time is irregular, but using email will get a quicker reply than phoning.

How To Order Seed Potatoes from Moose Tubers

- For mail orders please use the order blank in the center of the catalog on page 74C.
- Variety descriptions begin on page 104.

Order online at **www.fedcoseeds.com**.

With heightened attention to credit card security, we no longer retain any card information in our files. We will charge all orders as we receive them. We will send you a bill or a refund for any adjustments when we ship your order. We cannot charge the adjustments to your credit card.

Moose Tubers Deadlines

Orders **received** by: qualify for:
March 2 Volume discounts, best selection, early April shipping
March 16 Final orders for the season, potato supply limited

Moose Tubers Discounts

- We must receive your order by March 2.
- Figure your discount from your order total **before** shipping.
  Orders over $200 deduct 5%
  Orders over $400 deduct 10%
  Orders over $850 deduct 15%

For amounts over 1000 lbs, please download our bulk price list or call or write for one.

Moose Tubers Shipping

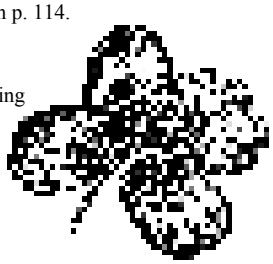
- **We begin shipping Moose Tubers orders in early April.**
- We cannot ship before that; please do not ask us to do so.
- We will ship orders received by March 2 by April 13.
- We ship common carrier orders beginning April 2.
- We ship sunchokes separately in early May.

To Order Supplies & Cover Crops from Organic Growers Supply

- For mail orders please use the order blank in the center of the catalog on page 74E.
- Order by April 20 for pickup at the Tree Sale.
- There is no final order deadline for OGS. After the Tree Sale, the OGS warehouse will be open Wednesdays from 9:00–3:00 for pickups and walk-in customers.
- Introduction on p. 112, descriptions begin on p. 114.

OGS Discounts

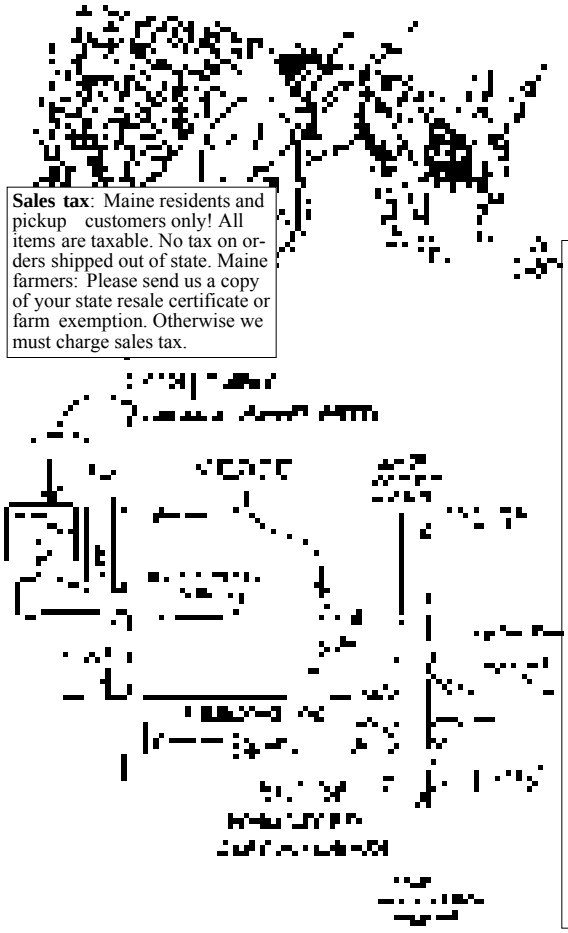
- There is no deadline for discounts.
- Figure discounts from your total **before** adding shipping charges.
  Orders over $200 deduct 5%
  Orders over $400 deduct 10%
  Orders over $800 deduct 15%
  Orders over $1600 deduct 20%
  Orders over $2500 call for a quote.



OGS Shipping

- **We begin daily shipping of Organic Growers Supply orders on Jan. 12.**
- Generally we will ship your order within one week.
- From mid-May to mid-January we ship once a week, usually Weds.

OGS prices are subject to change without notice. 2012 prices go into effect in November 2011. Check online for updates.



Sales tax: Maine residents and pickup customers only! All items are taxable. No tax on orders shipped out of state. Maine farmers: Please send us a copy of your state resale certificate or farm exemption. Otherwise we must charge sales tax.

- Contact us if you need more order forms or the Moose Tubers bulk price list, or download them from the web: **www.fedcoseeds.com**.
- Be sure to include shipping charges (see chart below).
- **Groups:** Order online, see our website for details; or mail us all the individual orders from your group along with one payment and one order form as a cover sheet for group totals and shipping address. We will ship individually packaged orders *to one address*. Group gets volume discount and shipping rates based on the combined total. We recommend making copies of orders before sending them.

Shipping

- We ship via **UPS** ground or USPS **Priority Mail**; our choice, based on weight.
- Prices do not include shipping. Use the chart below to figure shipping costs.
- We ship all orders to **Alaska** and **Hawaii** by **Priority Mail**.
- We do not use parcel post for shipping. If UPS can't find your house, please arrange delivery to your workplace or a neighbor, or pay the Priority Mail rates.
- **If you require Priority Mail, use the rates for AK and HI.**

Common Carrier

- In New England, we have flat rates for pallets weighing up to 2000 lbs. ME, $90; NH & MA, $98; VT, $107; RI, $92; CT, $105; NY (zip codes beginning with 105-109, 120-149) $128. For home or school deliveries, add $100 per pallet.
- For delivery to other states: If your shipment weighs more than 1000#, call us with the estimated weight and the destination zip code. We will check with trucking companies and quote you a price. In some instances UPS will be cheaper. Include with your order a phone number where you can be reached during the day.

Pickup

OGS orders We will send a postcard (usually within 2 weeks of receiving your order) with directions and your order number when your order is ready to pick up. From Jan. 6 through April 20 you may come **Wednesdays or Fridays** 9:00–3:00. After April 20, you may pick up **at the Tree Sale**. After May 5, you may pick up **Wednesdays** 9:00–3:00. If your order is over 500 lbs, please call the day before you plan to come or be prepared to wait.

Moose Tubers orders will be ready for pickup **at the Tree Sale**. If you need your order before then, call in advance to make arrangements. Fri and Sat, April 27–28, from 9:00–3:00 are reserved for customers with orders to pick up. Public Tree Sale days are Fri and Sat, May 4–5, from 9:00–3:00. We will send a postcard with directions and your order number.

- We do **not** ship to **Canada**, and will not provide materials required for importation permits.

If your order weighs ☞	0-2 lbs.	up to 5 lbs.	up to 10 lbs.	up to 15 lbs.	up to 20 lbs.	up to 25 lbs.	up to 30 lbs.	up to 35 lbs.	up to 40 lbs.	over 40 lbs.	over 200 lbs.	over 500 lbs.
And your zip code begins with:												
038-049	$5.20	$11.25	$12.50	$13.25	$14.00	$15.00	$16.00	$16.75	$17.75	39¢/lb	32¢/lb	25¢/lb
010-037,050-067,120-123	$5.55	$11.75	$12.50	$13.75	$15.00	$16.50	$17.75	$19.00	$20.50	41¢/lb	37¢/lb	28¢/lb
005, 068-119,124-149	$6.20	$12.75	$13.50	$14.00	$15.50	$17.00	$19.00	$20.50	$22.25	48¢/lb	38¢/lb	34¢/lb
150-297,400-499	$7.90	$13.00	$14.00	$14.75	$17.00	$19.00	$21.25	$23.50	$25.50	55¢/lb	45¢/lb	38¢/lb
298-399,500-582,600-726	$8.60	$13.50	$14.50	$16.75	$19.75	$22.50	$25.50	$28.50	$31.25	69¢/lb	55¢/lb	43¢/lb
583-593,727-778	$9.15	$13.75	$15.75	$19.00	$22.25	$25.50	$28.75	$32.00	$35.25	80¢/lb	64¢/lb	47¢/lb
others except AK & HI	$10.20	$14.50	$16.75	$20.75	$24.75	$29.00	$33.00	$37.25	$40.50	85¢/lb	71¢/lb	57¢/lb
AK, HI & ***Priority Mail***	$10.20	$18.35	$31.75	$41.75	$53.50	$59.25	$69.00	$76.00	$82.00	$2.05/lb		

For larger orders, consider Common Carrier. Up to 2000 lbs:

ME	$90.00
NH & MA	$98.00
VT	$107.00
RI	$92.00
CT	$105.00
NY(except NYC)	$128.00

For other locations call us at 207-873-7333 for more information.

Seed Saving Organizations

The Seed Savers Exchange, 3094 N Winn Rd, Decorah, IA 52101, (563) 382-5990, www.seedsavers.org. A grassroots network of gardeners and plant collectors who maintain and distribute rare varieties of food crops. Their 2011 Yearbook lists 694 members who maintain a total of 13,876 different vegetable varieties. The SSE houses their larger collection at their 890-acre Heritage Farm. Annual membership is $40. **The Flower and Herb Exchange** is at the same address. Annual membership in FHE is $10.

The Scatterseed Project, 39 Bailey Rd, Industry, ME 04938, A project for conserving genetic diversity. No catalog, but all varieties are available through SSE. Scatterseed maintains ~1100 varieties of peas and 700 of potatoes among its over 3000 plant varieties.

Seeds of Diversity Canada, PO Box 36, Station Q, Toronto, ON M4T 2L7, Canada, (866) 509-7333, www.seeds.ca. Dedicated to the conservation, documentation and use of plants with Canadian significance. Promotes a pollinator observation program. Publishes *Seeds of Diversity Magazine* plus a 2,900-variety seed exchange directory. Annual membership $40.

The Farmington (ME) Seed Savers Group, A local group of gardeners and small farmers whose focus is on education and on preserving vegetable varieties suited to our region. Monthly meetings on the third Thursday. Offer three open-to-the-public educational programs during the winter. Contact amy@whitehillfarm.com or ros.rosalie@gmail.com or David King at (207) 639-4302.

Seed Production and On-Farm Crop Improvement

Organic Seed Alliance (OSA) PO box 772, Port Townsend, WA 98368, (360) 385-7192, www.seedalliance.org. Sponsors a biennial seed growers conference and offers workshops on seed production and plant improvement. Conducts collaborative research on breeding. Published the *2011 State of Organic Seed Report*, available for free download.

The Family Farmers Seed Cooperative (FFSC) 1710 W. Alameda #9, Santa Fe, NM 87501, (866) 866-2001, www.organicseedcoop.com. A farmer-owned and managed seed production and marketing cooperative to foster the development and improvement of open-pollinated public domain varieties suitable for organic production systems and to produce and distribute high quality open-pollinated organic seed. "The selection process never stops," is their mantra.

Northern Organic Vegetable Improvement Collaborative (NOVIC) Teri Balch, (315) 787-2396, teri.balch@ars.usda.gov. A collaboration of Cornell University's Department of Plant Breeding, Oregon State University's Department of Horticulture, the University of Wisconsin's Department of Agronomy, the Organic Seed Alliance and the USDA-ARS Plant Genetic Resources Unit at Geneva, NY. Making available improved varieties for organic farmers with disease resistance, flavor, nutritional qualities and high productivity.

Heritage Wheat Conservancy, 400 Adamsville Rd, Colrain, MA 01340, www.growseed.org, growseed@yahoo.com, works with traditional farmers and gene banks to collect, conserve and market heritage wheats best adapted to organic fields and artisan breads. Funded by Northeast SARE.

Useful Publications

Growing for Market, PO Box 3747, Lawrence, KS 66046, (800) 307-8949, www.growingformarket.com, published monthly, year's subscription is $33 by mail, $30 electronically. Essential for market growers: what's hot, what's not, how to do it & what it'll cost.

Hort Ideas, Electronic only. Published monthly by Greg and Pat Williams, 750 Black Lick Rd, Gravel Switch, KY 40328. Year's subscription is $15. Summaries of the latest research on all topics horticultural. Keeps close tabs on issues that affect the farming and gardening community including great coverage on genetic engineering, global warming, new products, etc.

The Avant Gardener, PO Box 489, New York, NY 10028, published monthly, annual subscription is $24. Keep abreast of horticultural trends. Perennial gardeners and landscapers, especially, will like the sourcing of hot new introductions.

Kitchen Gardeners International, 3 Powderhorn Dr, Scarborough, ME, 04074, www.kitchengardeners.org, has forums and Q&A useful for beginning gardeners.

Information on Genetic Engineering

ETC Group (Action Group on Erosion, Technology and Concentration) 431 Gilmour St, 2nd floor, Ottawa ON K2P 0R5, Canada (613) 241-2267, www.etcgroup.org. International non-governmental watchdog organization monitors multinationals and governments on biopiracy, nanotechnology, synthetic biology, patenting life forms, and terminator and exorcist technology. Helped launch a "Hands Off Mother Earth" campaign to prevent real world deployment of geoengineering experiments.

Union of Concerned Scientists, 2 Brattle Sq, Cambridge, MA 02138, (617) 547-5552, www.ucsusa.org. An alliance of citizens and scientists who research and evaluate the risks and benefits of biotechnology in agriculture among other topics in science and public safety. Published *Failure to Yield*, assessing the effect of genetic engineering, compared to other agricultural technologies, on crop yields. Concluded that "traditional breeding outperforms genetic engineering hands down," casting great doubt on claims that genetic engineering can feed the world or even significantly increase food production in the foreseeable future.

Organic Consumers Association 6771 South Silver Hill Dr, Finland, MN 55603, (218) 226-4164, www.organicconsumers.org. Public interest organization focused on safeguarding our food. Their e-newsletter *Organic Bytes* is a great way to stay aware of corporate assaults on our food supply. Their "Millions Against Monsanto" campaign is supporting California's initiative to become the first state to pass a mandatory GMO labeling law.

Food for Maine's Future, PO Box 51, Sedgwick, ME 04676, (207) 244-0908, www.savingseeds.wordpress.com. Growing seed at Saving Seeds Farm in Sedgwick. Seeks to build a just, secure, sustainable, democratic food system in the state. Their newsletter *Saving Seed* and their website keep current on transgenic and other food security issues in Maine.

The Center for Food Safety 660 Pennsylvania Ave SE #302, Washington, DC 20003, (202) 547-9359, www.centerforfoodsafety.org. Works through legal action and public education to maintain safe food. Initiated the 'Just Label It' campaign justlabelit.org/ focused on gathering one million comments in support of a petition calling for the mandatory labeling of GE foods that was submitted to the FDA in September.

Alternatives to Organic Certification

Certified Naturally Grown (CNG), 540 President St. 3rd floor, Brooklyn, NY 11215, www.naturallygrown.org. Instead of third-party certification, direct market farmers who sell to local markets inspect one another. Apply online or contact Alice Varon, (877) 211-0308 or at info@naturallygrown.org.

Participatory Guarantee Systems (PGS) An international movement to decentralize and simplify certification so that it is available to small farms and poor farmers selling directly to consumers. Most PGS farms have an educational visit from a mixed group of fellow farmers & consumers rather than an inspection. The guarantee is connected with developing local markets and empowering farmers. See the PGS section of the website for the International Federation of Organic Agriculture Movements, IFOAM.org.

The Farmer's Pledge from NOFA-NY, to practice socially just, humane and ecologically sound farming.
http://nofany.org/organic-farmer/farmers-pledge-program,

Food Justice Certified The Agricultural Justice Project offers domestic fair trade certification for food businesses and large farms, or a participatory pledge for small-scale direct sales farms with little hired labor. To read the standards or contact the nearest certifier, see agriculturaljustice project.org.

Organic Farming Organizations

MOFGA (Maine Organic Farmers and Gardeners Association), PO Box 170, Unity, ME 04988, (207) 568-4142, www.mofga.org. Works to promote sustainable agriculture through legislative and educational initiatives, annual sponsorship of the Common Ground Country Fair, publication of its quarterly newspaper, and maintenance of farm apprenticeship, journeyperson and certification programs. Maintains local chapters.

NOFA (Northeast Organic Farming Association) c/o Bill Duesing, Box 135, Stevenson, CT 06491, (203) 888-5146, www.nofa.org. For the rest of the Northeast what MOFGA is for Maine. Maintains state chapters in VT, NH, MA, RI, CT, NY and NJ (also serves PA). Sponsors educati onal conferences each summer and winter, and publishes a quarterly newspaper.

PASA (Pennsylvania Association for Sustainable Agriculture), PO Box 419, Millheim, PA 16854, (814) 349-9856, www.pasafarming.org.

OEFFA (Ohio Ecological Food & Farm Association), 41 Croswell Rd, Columbus, OH 43214, (614) 421-2022, www.oeffa.org.

VABF (Virginia Association for Biological Farming), PO Box 1003, Lexington, VA 24450, 540-463-6363, www.vabf.org.

CFSA (Carolina Farm Stewardship Association), PO Box 448, Pittsboro, NC 27312, (919) 542-2402, www.carolinafarmstewards.org, is North and South Carolina's organic organization.

The Bio-Dynamic Farming & Gardening Association, PO Box 944, East Troy, WI 53120, (262) 649-9212, www.biodynamics.com. Sponsors annual conference on topics of interest to biodynamic growers and publishes a quarterly journal

Northeast Sustainable Agriculture Working Group, www.nefood.org. Works to build a sustainable regional food and agriculture system.

Annual membership rates for MOFGA and NOFA. You can join when you order; list names and addresses on a separate sheet, indicate new membership or renewal, add total on order form.

state	individual	family	supporting	other	
VT	30	40	100	15-25	basic
NH	35	75	250	25	basic
MA	35	45	150	25	low income
RI	25	35	50	20	student/senior
CT	35	50	150	25	student/senior
NY	40	50	115	20	w/out tnf sub
NJ	40	70	150	20	student/intern
ME	35	50	120	20	stu/sen/low inc

Climate Change ?

After the past season, climate change is impossible to deny and hard to overlook. During the 39 days from Aug. 27 through Oct. 5, I logged roughly 18 inches of rain in Colrain, MA, an annual rate of 168.6 inches, the stuff of tropical rainforests, not New England. Donna Dyrek in Hartland, ME, 4–5 hours distant, had 20.75 inches total for Aug. and Sept, some folks in PA and southern New York State much more. Then, on Oct. 9, four days after the high pressure that finally brought clearing and our first frosts to the hill country, Boston recorded 87°, *a whopping five degrees* higher for that date than the old record that had stood for 69 years. Less than 3 weeks later, Colrain got 17 inches of snow!

We used to say that if you don't like the weather in New England, wait five minutes. Never true, now less so than ever. Instead, stalled fronts are hanging around for many days, long extended lows of humid wet weather, followed by highs that build for days and days into extreme humidity erupting into violent serial thunderstorms. I had at least five fronts deposit more than three inches of rain in 2011: exactly what the climate change models predicted, more and more extreme weather, less and less moderation. Though a lucky few farmers had bountiful crops in 2011, many more endured unexpected difficulties. Since I moved to MA, this makes three consecutive extreme weather years, only one of which produced great bounty.

Common Ground Fair invited television weather personality Lou McNally to talk about the implications of climate change for growers. McNally believes climate change is real, but claims that in the last 30 years, Maine cooled by 0.4° while the rest of New England warmed by 1.6 °. Except for the past three years, I lived year-round and farmed in Maine and cannot believe McNally is correct. Cooler than 30 years ago? No way! Winter lows almost never approach past levels, summer highs breach 90 ° far more frequently, and the first fall frosts have receded 2–3 weeks. Turns out McNally, though he had access to the most advanced climate modeling, wasn't even living in the state several of the years he broadcast weather here. So he probably missed the Mar. 22, 2010, ice-out at Lake Auburn, ME, 8 days earlier than any recorded over the previous 136 years!

To gain a longer perspective, I consulted a volume put out by the U.S. Patent Office, the predecessor of the USDA, discovering that the high temperature recorded in Gardiner, ME, in 1858 for the entire month of August was only 77°. Two other Maine locations weren't much warmer. Unthinkable now!

Dr. Alan K. Betts, who has studied climate change in Vermont since 1960, documents on his marvelous website **http://alanbetts.com** that the growing season for frost-sensitive plants has increased by about 3.7 days per decade. The duration that small lakes remain frozen in winter has changed even more, averaging nearly 7 days fewer per decade, a decrease of nearly a month over the past 40 years! The first lilac bloom has advanced by a slower, but still significant, 1.6 days per decade.

How to respond to climate change? Take McNally's ideas, good as far as they go, deeper. He said get to know farmers one climate zone removed, study what and when they are planting and diversify your crops. I would add:

• Diversify your *range* of crops. When I started farming in 1973 I had 100 frost-free days on average, 110 at best. In Colrain I now have 40 more, some from moving that one zone south, many from climate change. Crops once impossible or marginal that are now likely winners include peanuts, yams, longer-season melons, peppers, winter squash, and Yard Long beans.

• Also consider growing staple crops that have been neglected in New England, such as heritage wheat and rice or quinoa and grain amaranth.

• Diversify seasonal windows and successions. Instead of a mere 2–3 weeks of fresh sweet corn, the longer season permits me 8–10 weeks if I start in early May with a short-season variety and keep sowing till July 4. I can even make winter squash and melon successions, a marvelous hedge against extreme weather. If it didn't work the first time, try again. Autumn is getting longer and more temperate, allowing harvests of greens, broccoli and cauliflower way into November. For many crops targeting the fall harvest gives better results than fighting fickle spring weather and summer heat waves.

• Study phenology and sow accordingly. Phenology looks at natural events like when the first robin is sighted, peepers start peeping, trees leaf out, lilacs and apples bloom and how changes in these dates relate to climate change. I often sow sweet corn at apple bloom, for example. Phenology is not 100% foolproof, apple trees sometimes make mistakes, but, in general, peepers, birds and trees are more sentient about nature than humans, and they provide clues to how the climate is changing and what it implies for our agriculture.

• Moderate the effects of extreme weather. My partner Eli saved at least one of our beds from Irene-induced flooding by diverting excess water to make a pond, where it is available during droughts.

• Use season-extending devices such as greenhouses, hoophouses, high and low tunnels, caterpillars. Those of us who prefer to be outdoors in the elements won't find them fully acceptable substitutes for reliable weather, but they can mitigate the risks climate change will bring.

• McNally advised us not to listen to climate deniers, instead to just do what we have to do for ourselves to adjust. Yes, but that is not enough. Climate is the ultimate commons, its effects, both good and bad, shared by all. Policy decisions affect our climate. If the deniers have their way and we lose opportunities to address potential problems, all of us will suffer, and our own efforts to ameliorate the effects will be insufficient. Earth can be Heaven or Hell. It is up to us. –CR Lawn

We Love to Hear from You

and often respond to your order comments, emails and letters. Your ideas and suggestions stimulate our thinking and help us to improve our catalogs, products and service. Here are more ways you can help us:

• Suggest new varieties.
• Help us fill missing niches.
• Tell us how we can improve service.
• Become a trial gardener. We are interested in experienced successful gardeners with good record-keeping skills. We discourage organic purists because often we get fungicide-treated trial packets from suppliers. We give preference to trialers from Maine and other cold climate states who can test varieties in the growing conditions of the primary region we serve. For 2012 we need trialers of black tomatoes, cardoon, golden zucchinis, early cukes, and peppers, both hot and sweet.
• Send us seed of an heirloom variety which you think has commercial potential.
• Send us old seed catalogs, farm books or classic references.

For more details, consult our website **www.fedcoseeds.com**. Click on **Fedco Seeds** and go to the **Catalog Corner** link on the left. We have also published information about seed saving and our quality-control program there.

Have a Seed Quality Problem?

- Ask yourself: Where and when did I get the seed? How did I store it?
- Email CR Lawn at **seedquality@fedcoseeds.com**.
- Please report it *as soon as you become aware of it* so that we can help you *and other people who may be having the same problem.*
- Please supply as much *specific information* as you can about what went wrong and how it went wrong so that we can diagnose the problem and correct it in the future. As a minimum we need to know *variety name, size of packet* bought, *lot number* if available, the *nature of the problem* and your *address* to refund you.

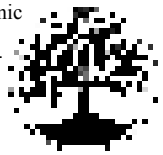
"Upgrade your online ordering mechanism. It is terrible."
—Mary Schneckenburger & Ken Voorhees, Litchfield, ME

We can identify two problem areas:

- During times of heavy use, sometimes folks got timed out by the web server. Last season, we advised people to place orders at a low-traffic time (early morning, late evening, weekends) and this helped. We are addressing the congestion by upgrading our server, and plan to have it in place by January. Increased capacity, in theory, will handle the traffic.
- As with the paper forms, each division has its own cart and checkout. You *cannot* put a book or other OGS item into the Seed cart, or search for an apple tree unless you are in the Trees section. You *can* have active shopping carts in several divisions at the same time, but you have to check out and pay for each one separately. Each division has its own discount schedule, shipping charges, and shipping calendar.

And many people like our website.
"Your quick order site is very good. Easy to use and fast."
—Susan Klein, Colton, NY

Our Refund and Donations Lines



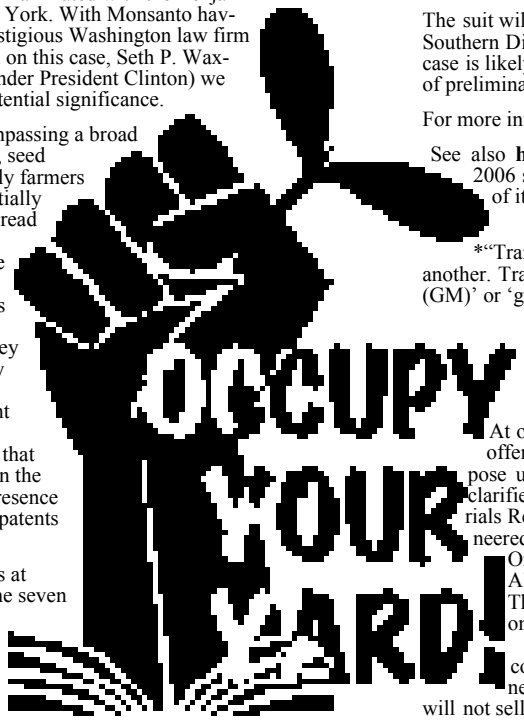
For a painless way to **support MOFGA** (the Maine Organic Farmers and Gardeners Association), donate all or part of your refund by checking a box on the totals page of your order form. MOFGA will use the money to maintain and improve the grounds at their site including landscape plantings, demonstration fields and gardens, and heirloom orchards.

On the bottom of the totals page of your Seeds order form we have left a line for making an optional **donation** to support lawsuits organized by the **Center for Food Safety** to reduce the risk of GE contamination of our seed supply.

Note: These lines are *specific to each order form.* If you wish to support organizations that are not on the order form, please send your donations directly to them.

Fedco Joins Lawsuit against Monsanto

Last November our staff and Board voted unanimously to join a lawsuit against Monsanto filed by The Public Patent Foundation (PUBPAT), a not-for-profit legal services organization affiliated with the Benjamin N. Cardozo School of Law in New York. With Monsanto having responded by engaging the prestigious Washington law firm of WilmerHale (their chief counsel on this case, Seth P. Waxman, served as Solicitor General under President Clinton) we anticipate a legal battle of great potential significance.



Fedco joins 82 co-plaintiffs, encompassing a broad range of agricultural organizations, seed businesses, organic certifiers, family farmers and seed growers who could potentially be damaged by the uncontrolled spread of transgenic seeds and their unchecked potential to contaminate conventional and organic seed crops. None of the plaintiffs wishes to use or sell transgenic seed. Ironically, plaintiffs fear "that if they do indeed become contaminated by transgenic seed, they could quite perversely also be accused of patent infringement by the company responsible for the transgenic seed that contaminated them." Courts have in the past ruled that even adventitious presence of transgenes violates Monsanto's patents (Percy Schmeiser case).

Among co-plaintiffs are our friends at MOFGA, OEFFA, all but one of the seven state NOFA chapters, The Center for Food Safety, at least eight seed growers and seed companies with whom we collaborate, and several of our farm customers.

The lawsuit seeks to invalidate 23 of the gene giant's transgenic patents on the grounds that they lack beneficial social utility and original art. It asks the court, even if it finds the patents valid, to enjoin Monsanto from enforcing them on plaintiffs who are inadvertently contaminated by Monsanto's genetics. The complaint states that between 1997 and 2010, Monsanto filed "144 lawsuits against farmers in at least 27 different states for alleged infringement of its transgenic seed patents" and investigated and threatened hundreds more, including some who never purchased Monsanto's seeds, signed their technology-use agreements, or ever intended or wanted transgenic genes on their property.

Getting right to the point it begins, "Society stands on the precipice of forever being bound to transgenic* agriculture and transgenic food. Coexistence between transgenic seed and organic seed is impossible because transgenic seed contaminates and eventually overcomes organic seed." Indeed, we would go further and assert that transgenic seed eventually contaminates and overcomes all other seed, conventional as well as organic.

The largest human-instigated biological experiment in history, transgenic technology is without controls or boundaries. Most participants are unwitting, having been drafted without their consent. No fence can be built high enough to keep out unwanted biological pollution, no geographic boundary can stop it. Because it multiplies at will, it cannot be contained. No long-term tests have been performed to assess its safety for humans, no labels have been required to permit an audit trail that could monitor its effects.

By posing the question: Given the increasing ubiquity of transgenic technology, who pays when something goes wrong as it inevitably will?, this lawsuit could help level the economic playing field for us all. It represents our last best chance to build a metaphoric fence to protect at least the economic interests of those of us who eschew the technology. Until now, the law regarding transgenics has been upside-down, representing the interests of its corporate originators without protecting those who are trespassed by it. This lawsuit could restore the traditional common-law right of freedom from trespass and place the economic responsibility back where it belongs: on the trespassers. As such, it is profoundly conservative in all the good connotations of that word.

If we win on the issues of applicability and enforceability of the patents in cases of unwanted genetic drift, none of the 83 co-plaintiffs will ever be sued for adventitious presence, and it will set a precedent that applies to all others in a similar fix. That might not end the threat of transgenics, but it would be a New Deal, indeed!

The suit will be tried as OSGATA et. al. V. Monsanto in US District Court, Southern District of New York, Judge Naomi Reice Buchwald presiding. The case is likely to take several years as we are now only in the beginning phase of preliminary motions. We will keep you posted as it develops.

For more information contact me at **crlawn@fedcoseeds.com.**

See also **http://www.fedcoseeds.com/seeds/monsanto.htm**, our definitive 2006 statement on why we do not purchase seed from Monsanto or any of its subsidiaries.
–CR Lawn

*"Transgenic means to introduce the genetic code of one species into another. Transgenic plants are sometimes referred to as 'genetically modified (GM)' or 'genetically engineered (GE),' however those terms are imprecise.

Fedco Does Not Knowingly Carry Genetically Engineered Seeds

At our 1996 Annual Meeting we voted unanimously not to knowingly offer for sale any transgenic variety because the new gene technologies pose unacceptable risks to the environment. In 1999 we affirmed and clarified that position and will follow the guidelines of the Organic Materials Review Institute (OMRI) which prohibit the use of genetically engineered organisms in organic crop production. OMRI uses the National Organic Standards Board (NOSB) definition of genetic engineering. Along with more than 150 other seed companies, we have signed The Safe Seed Pledge. See our website www.fedcoseeds.com, click on Fedco Seeds, then on Catalog Corner for the full text.

Please note the word *"knowingly."* Because of the possibility of contamination, over which we have no control, our pledge necessarily stops short of being an absolute guarantee. Although we will not sell any variety represented to us as transgenic, we will not be held legally responsible if any of our seed tests positive for genetically modified organisms. We have been advised not to sign any blanket statements such as "GMO free" that require us to state with certainty that our products are pure. Please do not submit such statements with your order. We apologize for having to split legal hairs, but we all share the reality of genetic drift.

We Test Sweet Corn and Beet Seed for Transgenic Contamination

To help ensure the purity of our seed, we have for the past ten years employed industry leader Genetic ID to test random samples of our sweet corn lots for the presence of transgenic contamintion. Because of the risks posed by production of genetically engineered Roundup Ready beets, we have added beet and chard varieties to our GE testing program.

We remove from our inventory and our catalog any lots that test positive or show trace indications of transgenic contamination.

A negative test result, while not *guaranteeing* genetic purity, improves your chances that the seed is uncontaminated. These tests are expensive, but in a time of genetic roulette, they are necessary though not sufficient to assure seed purity. Only if the seed trade takes an adamant position that we will not tolerate GE contamination in our product can we maintain any integrity in our seed supply.

"Thank you for your wonderful seed selection and unwavering stance on GMOs!"
—Valerie Finch, Fayetteville, GA

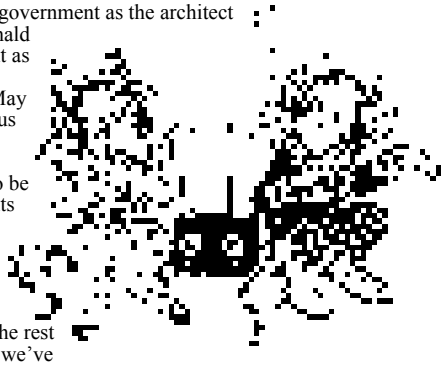
"The letter written on your website about Monsanto and your ethical dilemma was the most explicit and straightforward comment I have heard yet. I will…hand it out at my greenhouse this summer to all of my customers. These are things we ALL need to know. Thank you for the frankness and eloquence of your letter."
—Elise Bunce, Rock River Perennial Garden, Chatham, MI

FDR's Fireside Chats

Franklin Delano Roosevelt, 1882-1945

Throughout his presidency (1932-1945) FDR used the new medium of radio to inform and rally the American people. Depending on your economic class, we either just came through or are mired in the deepest economic crisis since the Great Depression. The puerility and vapidness of the current political discourse only adds to the sense of foreboding and overall discomfort. Even our president, for all his eloquence, hasn't been able to rally the country with his inspiring speeches.

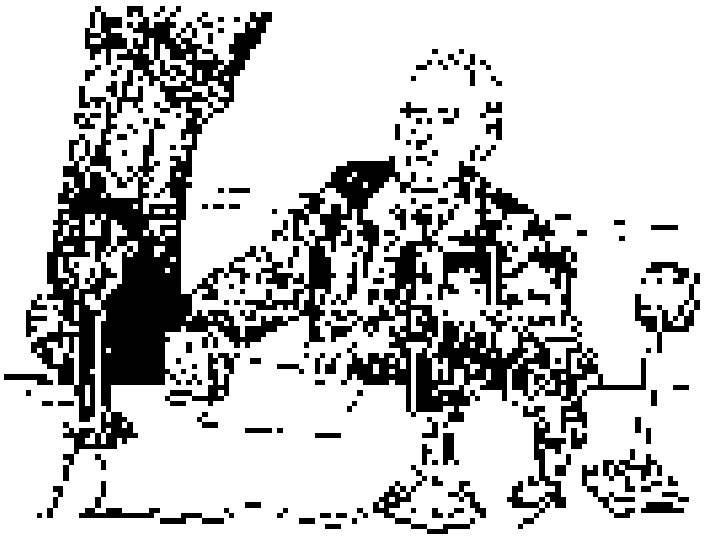
Learning that the Fireside apple was named in honor of Roosevelt, I started reading FDR's Fireside Chats. His rhetoric, clarity of vision, and reasoning were breath-taking. Most inspiring is his vision of the role of government. As he said in October 1933, we are "constructing the edifice of recovery—the temple, which, when completed, will no longer be a temple of money-changers or of beggars, but rather a temple dedicated to and maintained for a greater social justice, a greater welfare for America—the habitation of a sound economic life…" Compare his vision of government as the architect of a more secure life, with Ronald Reagan's vision of government as the problem, not the solution.



As FDR said in his talk in May 1940, "there are a few among us who have deliberately and consciously closed their eyes because they are determined to be opposed to their government, its foreign policy and every other policy, to be partisan, and to believe that anything that the government did was wholly wrong."

For those folks, and for all the rest of us who keep an open mind, we've sprinkled quotes from his Fireside Chats throughout the catalog. Read them, think about how much of what he said then applies today. We couldn't begin to include all we would like. Seek out the full texts; they are easy to find online. We can find fault with any president. FDR shows us that we can find hope and inspiration as well.

Perhaps the Occupy Wall Street movement could take inspiration from Roosevelt's words: "We had a bad banking situation. Some of our bankers had shown themselves either incompetent or dishonest in the handling of the people's funds." March 1933. "We insist that labor is entitled to as much respect as property." Sept 1936. As Woody Guthrie wrote in his song *Dear Mrs. Roosevelt*, "This world was lucky to see him born." —David Shipman



Yes, We *ARE* Entitled to what is rightfully ours

"An element in the readjustment of our financial system more important than currency, more important than gold...is the confidence of the people."
FDR Mar. 12, 1933

Last year's economics columns resonated with some readers, evoking both support and outrage. This year I am moved to consider so-called "entitlements" such as the Social Security and Medicare programs.

These days, when denoting such programs, too many pundits and politicians use the word 'entitlement' as a pejorative as in "how dare some citizens feel entitled to these benefits that are bankrupting our country?"

Even our President sees fit to propose a raid on Social Security and Medicare funds by reducing employer and employee contributions, thereby undermining our trust in their sustainability without providing any real stimulus to the economy. As an employer for 34 years, I've observed that Fedco hires only when our sales go up and we have more orders to fill. Not enough jobs? Decrease rather than increase the retirement age!

"Our Social Security program...proposes, by means of old age pensions, to help those who have reached the age of retirement to give up their jobs and thus give to the younger generation greater opportunities for work and to give to all a feeling of security as they look toward old age." FDR Apr. 28, 1935

In these mean-spirited times not even such skilled operatives as FDR and LBJ would have been able to get such programs through the Congress. We have the wisdom and compassion of former generations to thank for them. The health care legislation that President Obama coaxed from a reluctant Congress is but a contorted corporatist caricature of those earlier broad and generous initiatives.

What do entitlements have to do with a small seed company like Fedco? Everything. I turned 65 in May. Others on our management team and staff are in their 50s or 60s. Having worked hard and skillfully for Fedco for decades, many are contemplating well-deserved retirement.

For many years our government has deducted 7.65% from our paychecks and Fedco has matched that contribution to finance Social Security and Medicare. The money came from us to support us in our old age and it should be returned to us when it is due.

Entitled? You betcha! We paid for it; it is rightfully ours, a social contract between us and our government. If continued economic viability depends on confidence, even more does government's legitimacy depend upon it honoring its social contract with its citizens.

Yet, many right-wing Republicans want to privatize Social Security, increase the retirement age and/or reduce benefits. Even the Social Security Administration plays along, warning in its latest communication that Congress can change the benefits and program at any time and that the fund projects to have only 76% of its needed revenues in 2042. Are they setting the stage for yet another rip-off? I am not so concerned for our generation. Even the far right will not commit political suicide by daring to cut *our* benefits. Instead they will take it out on the next generations, who are even now paying into the funds with no reasonable confidence that they will ever see a dime back.

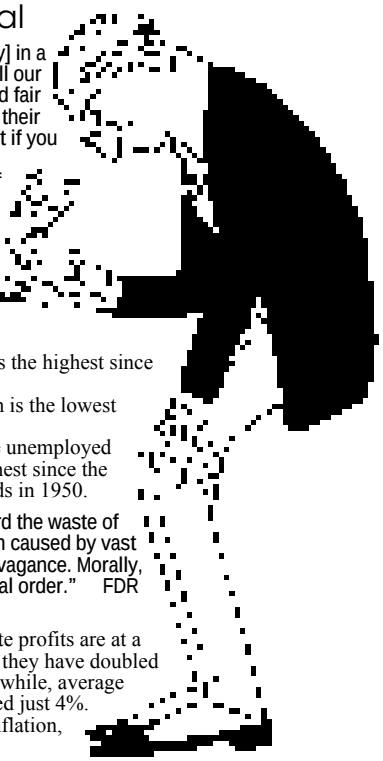
This is bait and switch, to offer promises to get you in the door only to renege on them before they come due. When businesses do this we call it criminal. It is no less criminal when government does it.

But Social Security is going bankrupt, isn't it? With all us baby boomers about to collect benefits, the present workforce is insufficient to finance them. So we are told. But it so happens that, in addition to promoting policies that would stimulate job creation, government has a simple remedy that would at once make the program fairer and ensure its economic sustainability for the foreseeable future. Presently, Social Security and Medicare taxes extend only to the first $106,800 in wages annually, exempting any additional wages and all income from other sources. It is thus a regressive tax funded disproportionately by low and middle income wage earners. Extending it to all wages *plus all additional non-pension income* not only would provide these programs enough additional funding to ensure their long-term solvency, but also a guarantee that all pay in their fair share.

Here's a truly conservative notion: those who are more fortunate have an obligation to help those who are not for the benefit and security of the entire society. Don't we owe our senior citizens at least that much? Don't we owe our present labor force the assurance that when they grow old, these programs will still be there for them? –CR Lawn

"True individual freedom cannot exist without economic security and independence...We have accepted a second Bill of Rights under which a new basis of security and prosperity can be established for all...Among these are the right of every family to a decent home; the right to adequate medical care and the opportunity to achieve and enjoy good health; the right to adequate protection from the economic fears of old age; and sickness, and accident and unemployment; and finally, the right to a good education. All of these rights spell security." FDR Jan. 11, 1944

A Modest Proposal



"We cannot attain [lasting prosperity] in a nation half boom and half broke. If all our people have work and fair wages and fair profits they can buy the products of their neighbors and business is good. But if you take away the wages and the profits of half of them, business is only half as good." FDR July 24, 1933

We need an economic climate that not only gives our workers sufficient security but also allows potential customers to afford our products. That is precisely what we now lack:

• At 14 million, unemployment is the highest since the Great Depression.

• At 64% workforce participation is the lowest since Reagan's 1980-81 recession.

• At 43% the percentage of those unemployed for longer than 6 months is the highest since the US first started keeping such records in 1950.

"No country, however rich, can afford the waste of its human resources. Demoralization caused by vast unemployment is our greatest extravagance. Morally, it is the greatest menace to our social order." FDR Sept. 30, 1934

• At $1.4 trillion, annual corporate profits are at a record high. Adjusted for inflation, they have doubled since 1990, CEO pay tripled. Meanwhile, average production-worker pay has increased just 4%.

• Real wage rates, adjusted for inflation, have declined 7% since 1972.

• Wages as a share of the total economy have declined from 52% to 44% since 1960.

• The top 1% get 23.5% of the income, their highest proportion since 1928, just before the onset of the Great Depression.

• The top 5% own 69% of the financial wealth in this country, ten times the share of the bottom 80%.

• The US ranks 93rd in world income-equality, behind Iran, China, Russia and Egypt!

"A very substantial share of corporate earnings must be paid out in wages, or the soil from which these industries grow will soon become impoverished." FDR Nov. 14, 1937

No wonder Occupy Wall Street has spread to over 2,000 cities and towns!

For far too long we have allowed well-heeled far-right think tanks, the Heritage Foundation, the American Enterprise Institute, the Koch brothers' charitable foundations, the Cato Institute and their ilk, to dictate the public discourse. We suffer from an historic inbalance between capital and labor, the forlorn consequence of following the jaundiced advice of these so-called conservatives, imposters whose policies conserve nothing except their own narrow class interests!

"There are those who fail to read both the signs of the times and of American history. They would try to refuse the worker any effective power to bargain collectively, earn a decent livelihood and to acquire security. It is those short-sighted ones, not labor, who threaten this country with that class dissension which in other countries has led to dictatorship and the establishment of fear and hatred as the dominant emotions in human life." FDR Sept. 6, 1936

Some have reproved Occupy Wall Street for critiquing our economic system without proposing specific policy solutions. But OWS doesn't claim to have all the answers; they wisely refrain from telling us how to think or what to do: that is their very strength. Instead, they invite all of us to incubate the creative ideas that will bring about real social change.

That we may start our own think tank I offer a few modest proposals, only a beginning, an invitation to dialogue. What so impressed me about FDR's Fireside Chats was his ability to craft a comprehensive vision, his individual programs reinforcing each other to create a balanced plan, like a well-built house braced and strengthened in all the right places.

• Yes, enact a small financial transactions tax, but also:

• Tax stock profits and other capital gains at the same rate as workers' wages. When I buy stock in a company, I do not lift a finger to produce any of its goods and services, yet I pay only a 15% capital gains tax while most of that company's productive work force pay at least 25% of their wages in income taxes.

"The employer-employee relationship should be one between free men and equals. We refuse to regard those who work with hand and brain as different from or inferior to those who live from their property." FDR Sept. 6, 1936

"I officially nominate Fedco to advise the government on how to run a business."
—Oliver Levis, Earth Sky Time, Manchester, VT

• Forgive all outstanding student loans. Now, not in 20 years! Not since the days of indentured servitude has our society treated its youth so badly. They come into adult life saddled with huge debts, now collectively in excess of $1 trillion. The big corporations love it because it hands them a captive army ripe for easy exploitation. But what does it do for the potential creativity of these young adults, stifled too soon under the burden of this yoke?

"I am not for a return to that definition of Liberty under which for many years a free people were being gradually regimented into the service of the privileged few. I prefer that broader definition of Liberty under which we are moving forward to greater freedom, to greater security for the average man than he has ever known before in the history of America." FDR Jun. 28, 1934

• Enforce a low ceiling on the proportion of loans permitted in student financial aid packages. Provide financial support for institutions who offer grants instead of loans. Extend interest-free grace periods prior to repayment till at least five years after completion of college or professional school.

• Institute a massive WPA program to stimulate the economy, employ primarily young adults and restore those areas ravaged by natural disasters. In my geographic area alone, roads, bridges, farmland and landscapes need billions of dollars of restoration funds that their local economies can't provide.

"Now we have plenty of capital, banks and insurance companies loaded with idle money; plenty of industrial productive capacity and many millions of workers looking for jobs. It is following tradition as well as necessity, if government strives to put idle money and idle men to work, to increase our public wealth and to build up the health and strength of the people–to help our system of private enterprise to function again...the first duty of government is to protect the economic welfare of all the people in all sections and in all groups." FDR Apr. 14, 1938

• Levy a tax on instigators of risky loans. Tax mortgages requiring less than 20% down payment, tax all variable-rate mortgages and student loans with inflated delayed balloon payments at rates commensurate with the degree of risk. We have sin taxes, why not risk taxes?

• Using that revenue, create a federal housing agency to forestall foreclosures. Require mediation to seek more acceptable alternatives. Foreclosures have devastated neighborhoods, housing values and economic security, swelling the ranks of the homeless, displacing and impoverishing millions of people. To a large extent, this recession was, and remains the result of a housing bubble perpetrated by greedy irresponsible banks.

• Enact comprehensive cradle-to-grave single-payer health care for all citizens that cuts out profit-making private insurers and is financed not by employers but by higher income taxes on both individuals and corporations.

• Make *all* brackets of corporate income tax rates progressive.

• Okay, all you strict constructionists: here's one for you! In their profound wisdom, our Founding Fathers proposed Article 1, Section 8, Clause 11 of the Constitution which vests the power to declare war on Congress. Unlike Amendment II, its language is clear and unmistakeable, though politicians have gone to great lengths to obfuscate it. Let's re-institute it in the literal spirit in which it was offered, that we will not invest that much power in one individual, lest we revert to monarchy. Our endless procession of ill-defined, ill-advised undeclared wars and police actions, not our modest social programs, has laid waste to our treasury.

Mr. Obama, the time for timidity is long since past. Big problems require bold solutions. As FDR said on Apr. 12, 1938 when the economic recovery from the Great Depression, threatened by opposition to his programs, was foundering,

"To abandon our purpose of building a greater, a more stable and a more tolerant America would be to miss the tide and perhaps to miss the port. I propose to sail ahead...For to reach a port, we must sail—sail, not lie at anchor, sail, not drift."

–CR Lawn

Join our Cooperative as a Consumer Member!

As a cooperative we stand on the middle ground between capitalism and socialism. At a time when socialism is a dirty word in America and the excesses of corporate capitalism grab daily headlines, that is a very good place to be.

As a cooperative, our consumer and worker members, rather than our proprietor or stockholders, own us. That makes our goals different: instead of maximizing profits for the benefits of a few owners, we choose to maximize social capital for the benefit of our entire community. Instead of charging what the market will bear, we choose to charge only what our business requires to survive and thrive and what our workers need to feel fairly paid.

In America, the average CEO makes 350 times that of the average worker, up sevenfold since 1985. At Fedco we have no CEO. Instead of the conventional pyramid, our organizational chart looks like a Möbius strip. Our management team gets paid only 1.75 times as much as our shop workers, our recognition that all our workers and all our tasks are important in getting the job done well.

When we started in 1979, co-ops had a checkered reputation, associated with hippies, back-to-the-landers, people considered decidedly anti-business. I used to cringe when I heard the common excuse for sloppy work, "Oh, what do you expect from a coop?" We set about to change that, to pursue excellence in our chosen work. While we still have plenty of room for improvement, after 34 years of steady growth, every one of them in the black, we can rightfully claim that our coop has been one of the stunning successes of the new wave.

This February, driven by your demand for our products, we purchased a new warehouse building and land to house our Trees Division and our office. This fall, in our Trees catalog, we launched our first consumer membership drive. We have been heartened by the response, but we still have a long way to go to attract sufficient member-owners to help us finance the estimated $600,000 cost of our acquisition and to take a real financial stake in our cooperative.

We are asking for a $100 membership equity (if this would be a hardship, there is a $25 low-income option), refundable at any time upon request. Please note that membership is by household (only one membership per household please) or by farm or organization.

Members will receive several benefits including a 1% discount on all orders from all of our divisions, an invitation to our Annual Meeting each September, the opportunity to vote on any proposed by-law changes, and to vote for and serve on our Board of Directors. This year the Seed Division is beginning a new tradition by offering to members only on a first come, first-served basis four selections that are in very short supply. They are # **280** Northeaster Pole bean, #**1683** Burpee's Butterbush Squash, # **2079** Scarlet Keeper carrot and #**5330** Drama Queen poppy. Next year there will be more. Please join and get them while you can!

CR Lawn, President, Fedco Seeds, Inc.

Sell Seeds for a Green School Fundraiser!

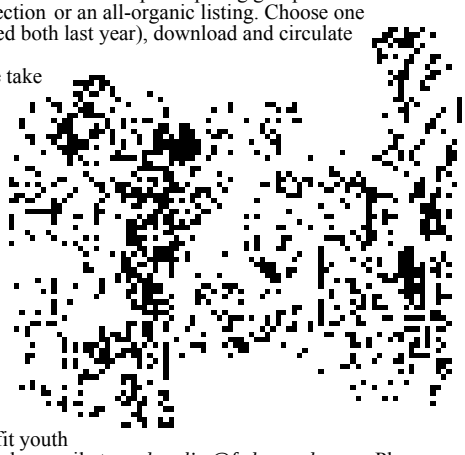
Tired of candy sales and want a school fund-raiser with a wholesome green message? **Start a school seed store.** We offer three options:

• Packet Seed Store: Purchase multiple packets and re-sell them at a profit. Get our volume discount plus 5%.

• Bulk Seed Store: Many participants in 2011. More work, but a lot more fun, with far more money-making potential than the packet store. Schools purchase seeds in bulk and students repack the seed to sell at their own Seed Store. Students design their own seed packets, develop their marketing strategy, and learn practical math using scales and scoops. Get our volume discount plus 5%.

You may order by mail or online with either option. There is no special order deadline, but plan to order early so you will have the packets ready in February and March when your customers are thinking gardens. We can help you select varieties.

• Convenience Pre-order: 59 participants in 2011 distributed nearly 19,000 seed packets and raised more than $16,000 for their groups. We customize an order form with 25 popular easy-to-grow varieties for each participating group. We offer two options: our regular selection or an all-organic listing. Choose one or both (27 groups offered both last year), download and circulate to take orders from your community. We split the take with your school group, PTA or non-profit. Designed to require the least amount of work and the smallest risk, as we ship only what you have already sold. Because success requires advance planning, the **deadline to contact us with intent to participate is Feb. 24 and to submit your order is Mar. 16.**



We are eager to work with any school, PTA or other interested non-profit youth group. Contact CR Lawn by email at *seedquality@fedcoseeds.com*. Please, no calls.

See **growseed.org/seedstewards.html** for seed curriculum and educational workshops.

Seed Storage: Keep your seed alive by storing it properly! Humidity and heat are the enemies of seed longevity. Humidity causes the quickest deterioration. Ideal moisture content for most seed is only 10–12% so store at low relative humidity. Use a sealed jar in your freezer or refrigerator for optimum storage. Failing that, don't ever allow the sum of temperature plus relative humidity where seed is kept to exceed 100.

• Never store seed in a humid, warm or sunny spot.

• Don't ever leave it in a greenhouse or hoophouse, even for a few hours.

Stored properly, most seed will last for several years. A few seeds are good for only one year, such as onions, parsnips, parsley, chives, shiso, scorzonera/salsify, Batavian endive, licorice, pennyroyal, St Johnswort, liatris, delphinium, larkspur, perennial phlox, and any pelleted or hot-water treated seed. If in doubt, try germinating a sample in moist paper towels.

See page 100 for longevity chart for herb and flower seeds.

Yes, I want to join Fedco as a consumer member-owner!

Enclosed is a check for my refundable membership deposit of $100.
Please make membership certificate out to:

Name_____

Address_____

City_____ St_____ Zip_____

Customer # (if you know it)_____

Email address_____

PO Box 520, Waterville ME 04903

New Seed Varieties for 2012

299 Gigante Fava bean OG: An Italian specialty variety for Fedco!
322 Red Noodle bean: Use your Noodle for another good ethnic choice!
331 Silver Cloud Cannellini bean OG: Every cloud has a silver lining!
490 Tankuro soybean OG: Tank up on Tankuro!
547 Honey Select hybrid sweet corn: Select this honey for some good eating!
930 Petit Gris de Rennes cantaloupe OG: An artisanal heirloom treat!
950 Sweet Freckles crenshaw: The ones with freckles are always the prettiest!
953 Blacktail Mountain watermelon: Drown(s) yourself in pleasure!
1396 Shintokiwa cucumber OG: Say sayonara to Suhyo!
1520 Lemon squash OG: Not a lemon if harvested young!
1526 Zephyr squash: For a cool breeze in summer squash color!
2716 You Mai Tsai lettuce: You may sigh for this sword lettuce!
2766 Australian Yellow lettuce OG: Extend your lettuce color palette!
2788 Oscarde lettuce OG: Classic baby oak leaf comes to Fedco!
2836 Red-Earred Butterheart lettuce OG: One look and you'll melt!
2856 Mayan Jaguar lettuce OG: Morton invents a new garden beast!
2984 Freedom lettuce mix OG: Not just another word for nothing left to lose!
2985 Red Carpet lettuce mix OG: Is waiting to take you away!
3273 Joi Choi: Not for your boy toy!
3315 Gypsy hybrid broccoli: A wandering broccoli I but be!
3391 Deadon hybrid cabbage: Dead on the money for colorful savoy!
3428 Snow Mystique cauliflower: 'Sno mistake!
3825 Sweet Superette Banana pepper: Anna Banna Banana!
3899 Potassium Nitrate: Not a seed, for germination speed!
4121 Green Doctors Frosted cherry tomato OG: Good medicine!
4136 Vilms paste tomato: A diet of Vilms beats a diet of Worms!
4138 Casady's Folly paste tomato OG: Don't let Casady's Folly become ours!
4211 Premio hybrid tomato: A primo early cluster tomato!
4218 Bobcat hybrid tomato: No beef about this Big Beef replacement!
4238 Luci 2103 hybrid tomato OG: You'll love Luci in the greenhouse!
4266 Honey Bunch hybrid red grape tomato: Oh, sweetie!
4271 Lucia hybrid grape tomato: Santa Lucia be praised!
4293 San Diego hybrid paste tomato: Where in the world is Tomato San Diego!
5135 Double Click Cranberries cosmos: A favorite color in this vibrant series!
5330 Drama Queen poppy OG: All the garden's a stage for this showy queen!
5354 Yellow Mexican Tulip poppy: No drama here, dainty and delicate!
5378 Vintage Stock mix: We predict a bull market for this stock!
5441 April in Paris sweet pea OG: As sweet as Ella sings with Louis!
5477 Golden Yellow Oklahoma zinna: As high as an elephant's eye!
5745 Purple Las Vegas gomphrena: Roll the dice on this vibrant purple!
5753 White Las Vegas gomphrena: Better than a trip to the casino!
5755 Las Vegas gomphrena mix: Why gamble? These are the best!
5970 Duborskian rice OG: A new crop for New England!
5997 Banatka winter wheat ECO: Another neglected staple for our region!

In addition, we welcome the return of 18 favorites including: German Pole bean, Black Coco bean, True Red Cranberry pole bean, Painted Hills sweet corn, Prescott Fond Blanc cantaloupe, Early Moonbeam watermelon, Richmond Green Apple cucumber, Burpee's Butterbush squash, Winter Bloomsdale spinach, Winter Marvel lettuce, Kinemontpas lettuce, Hon Tsai Tai, Thompson broccoli, Staddon's Select pepper, Mr. Fumo paste tomato, Tashkent marigold, Madder and Utrecht Blue wheat.

Catalog # Changes

Please take note if you keep your order on your spreadsheet:

item	was	now
Gold of Bacau bean	283	284
Windsor Fava bean	299	298
Peace watermelon	1118	1119
Sibley squash OG	1617	1618
Sibley conventional	1619	1617
Pink Banana squash	1618	1619
American Purple Top rutabaga	2397	6403
Rossa di Milano onion	2486	2490
Merlot lettuce	2788	2789
Hopi Red Dye amaranth	3008	5014
Diamond eggplant	3684	3683
Carmen pepper conventional	3836	3835
Chilipeño pepper	3857	6432
Some Like it Hot pepper mix	3897	3797
Principe Borghese tomato conventional	4117	4116
Fargo Yellow pear tomato	4120	4122
Speckled Roman tomato	4136	6435
Sun Gold cherry tomato	4282	4252
Supersweet 100 cherry tomato	4296	4256
Double Click mix cosmos	5135	5136
Danish Flag poppy	5330	5329
Black Knight sweet pea	5441	5442
Cupani sweet pea	5442	5443
Candy Roaster squash	6404	1675
Ponca squash	6406	1685
Beedy's Camden kale	6431	3465

"I love Fedco and admire all that you've accomplished. You're a great national asset!"
—Joe Mosnier, Chapel Hill, NC

Probably Your Last Chance in 2012

556 Tuxedo hybrid corn: Being dropped by the supplier.
598 Nauset hybrid corn: Slow sales make Nauset history.
1055 Passport melon: A good replacement is waiting on the docks.
5121 Clarkia: Slow sales.
5232 Harlequin marigold: Supplier has discontinued.
5261 Saluti salvia: Supplier has discontinued.
5461 Zulu Prince venidium: Slow sales.
5824 Lavender statice: Slow sales.
6062 Bressingham coral bells: Slow sales.

Dropped Varieties for 2012

321 Mitla Black Tepary bean: Crop failure.
333 Limelight bean: Crop failure.
337 Maine Sunset bean: Off-types in the stock.
354 Aunt Jean's bean: Crop failure.
388 Saturday Night Special bean: No seed grower.
484 Beer Friend soybean: Check web for possible availability.
516 Ashworth sweet corn: Crop failure.
530 Honey Treat sweet corn: Replaced by #**547** Honey Select.
560 Incredible sweet corn: Replaced by #**561** Incredible R/M.
739 Patriot pea: Crop failure: Where are the true patriots when we need them?
808 Dwarf Grey Sugar snow pea: Off-types in supplier's seed stock.
812 Dwarf White Sugar snow pea: Off-types in supplier's seed stock.
822 Blizzard snow pea: Crop failure, we already had our October blizzard.
920 Canoe Creek Colossal melon: Short seed crop; not available
949 Schoon's Hard Shell muskmelon: Late maturity and slow sales.
1672 Galeux D'Eysines squash: Failed germination test.
2051 Nantes Fancy carrot: No crop this year. We hope to have back in 2013.
2240 Hailstone radish: Poor quality in available supplier strains.
2474 Clear Dawn onion: No seed grower; darkness at dawn.
2910 Michelle lettuce: We suggest #**2907** Sierra.
3075 Chickendive: No crop, back in 2013, no, the grower did not chicken out.
3150 Aurora Orach: Crop failure; Aurora is without aura.
3219 Senposai Select: No crop.
3256 Tenderleaf: Alas, crop failure. Weevils at work.
3257 Chinese Thick Stem: Crop failure. More weevils.
3307 Windsor broccoli: Try #**3315** Gypsy.
3325 Umpqua broccoli: No grower, no oomph.
3327 Piracicaba broccoli: Crop failure. This one hurts.
3421 Violet Queen cauliflower: Crop failure.
3428 Cassius hybrid cauliflower: KOed by trade. Try #**3428** Snow Mystique.
3490 American rapa: Crop failure.
3715 Boldog pepper: No seed grower.
3741 Amish Pimiento pepper: No seed grower. Dr. Demento says no pimiento
3788 Bolivian Rainbow pepper: Hard to get good germination with this variety.
3839 Valencia pepper: Dropped by the trade.
3885 Krimzon Spice pepper: Dropped by the trade.
4079 Old German tomato: Try #**4077** Pineapple or #**4097** Ruby Gold.
4081 Mark Twain tomato: No seed grower.
4091 Lillian's Heirloom tomato: No seed grower.
4105 Wow! cherry tomato: Still not stabilized.
4118 Egg Yolk cherry tomato: No yolk, no seed grower.
4511 Bodegold Chamomile: Crop failure.
4515 Cilantro: Replaced by #**4517** Caribe.
5000 Blue Blazer ageratum: Sales were less than blazing.
5040 Sea Star aster: No longer available to us.
5144 Chianti dianthus: Dropped for slow sales.
5160 Osaka mix flowering cabbage: Slow sales.
5161 Red Peacock flowering cabbage: Slow sales.
5167 Daybreak Mix Gazania: Dropped by the trade.
5190 White Spire larkspur: Slow sales.
5224 Mauritanean Malva: Slow sales.
5316 Imperial Mix stock: Dropped by the trade.
5359 Indian Summer rudbeckia: No longer available to us.
5374 Early Giant stock: Dropped by the trade.
5377 Vintage Red stock: Replaced by #**5378** Vintage stock mix.
5411 Prado Red sunflower: Only treated seed available.
5412 Prado Gold sunflower: Only treated seed available.
5726 Pink Candle celosia: Dropped by the trade.
5742, **5746**, **5754** Orange, Purple & Mixed Gomphrena: Replaced by the Las Vegas series, white, purple and mixed.
5890 Winged Everlasting: Slow sales, supply everlasting!
5910 Burbank Barley: Stock mixed up.
6013 Ruby September New England aster: Dropped by the trade.
6130 Grandiflora gaillardia: Dropped by the trade.
6196 Maiden Pink: Dropped for slow sales.
6244 Gartford Giants mix poppy: Dropped by the trade.

For cultural information, see the vegetable chart on p. 75, flower charts on pp. 76-77 and herb chart on p. 78.

See **9635**, **9695**, **9815**, **9830**, **9837** and **9878** in the Books section for information on seed saving and production.

Visit Catalog Corner on our website for information about seed saving, our quality-control program, and for the Safe Seed Pledge. Who knows what other bonus information will find its way there?

Go to **www.fedcoseeds.com**, click on **Fedco Seeds**, then click on **Catalog Corner** from the menu on the left.

Certified Organic Seed

Fedco Seeds is a certified organic processor under the National Organic Program. Our facilities were inspected by MOFGA Certification Services LLC. Each variety labeled as organic in our catalog has been certified by a USDA-approved agency. By maintaining an audit trail and careful procedures we ensure that our certified organic seed will not be contaminated.

If you buy organic seed because you are a certified grower, save your invoice and your packet labels so you can keep track of lot numbers to maintain your own audit trail.

Although the rule requires organic growers to use certified-organic seed whenever it is commercially available, in practice it still leaves a wide range of choices. Many ambiguities remain in the definition of "commercially available" and in what constitutes a good faith effort to locate organic seed. Consult your regional certifier for their specific definitions, as these vary.

Organic growers have been using different compliance strategies. Some peruse a large number of different catalogs and purchase only organic seed no matter what the cost. Others stick to a few preferred suppliers, insist on certain favored varieties, and/or take price and quality into consideration.

Sustainably Grown Seed

All seed in our catalog offered as "certified organic" comes from certified farms. Even farms grossing under $5,000 that would otherwise be exempt from certification must get certified for us, as a processor, to label their product "certified organic."

Believing it essential to the democracy and self-reliance of our agricultural community and to our integrity as a seed supplier, we have painstakingly built our network of small seed growers over the past twenty years. Most of our growers use farm and seed revenues to supplement income from other jobs. Only a minority gross over $5,000 farming.

Although most practice sustainable farming methods conscientiously, some eschew certification for a variety of reasons, ideological, economic and otherwise. In this catalog we are using the ecological label **ECO** after the variety name to describe uncertified seeds grown without pesticides, herbicides or chemical fertilizers in gardens and on farms which maintain an active soil-building program. In most cases this seed is as sustainably grown as the certified organic seed. I hope you will continue to support these **ECO** growers with your purchases.

We use the label **BD** for those varieties certified biodynamically grown. Some varieties have both biodynamic and organic certification and so will have the symbol **OG/BD.**

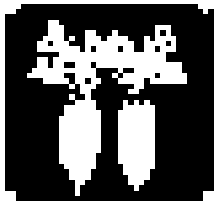
Organics in the Catalog

We list all available organic selections with sizes and prices in this section. All variety descriptions (organic and otherwise), sizes and prices are in the main body of the catalog beginning on page 18. Sometimes we offer both commercial and certified organic seed of the same variety.

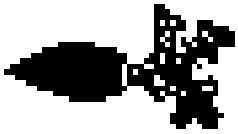
Things you should know about ordering organic:

- All organic catalog letters end with the letter 'O.' No conventional ones do.
- Organic always costs the same or more than conventional.
- If you change your mind between an organic and conventional selection of the same variety please change three things on your order: 1) the catalog number 2) the catalog letters 3) the price.

OG after cultivar name = entire lot is certified-organic seed. The certifying agency is listed in the copy. Abbreviations are:



AGRIOR: an Israeli organic inspection agency
BSO: Bay State Organic (Massachusetts)
CCOF: California Certified Organic Farmers
CO: Colorado Department of Agriculture
GOA: Global Organic Alliance
IA: Iowa Department of Land Stewardship
ICS: International Certification Services
ID: Idaho Department of Agriculture
MCCO: Monterey County (CA) Certified Organic
MD: Maryland Department of Agriculture
MOFGA: Maine Organic Farmers and Gardeners Association, MOFGA Certification Services, LLC
MT: Montana Department of Agriculture
NOFA (followed by state chapter): Northeast Organic Farming Association
OCIA: Organic Crop Improvement Association
OEFFA: Ohio Ecological Farm & Food Association
OT: Oregon Tilth
PA: Pennsylvania Certified Organic
QCS: Quality Certification Services (Florida)
SC: South Carolina Department of Plant Industry
SKAL: a Netherlands organic certifying agency
Stellar NOP: the certifying arm of Demeter, the international agency certifying biodynamically grown crops.
VOF: Vermont Organic Farmer
WA: Washington State Department of Agriculture



Supplier Codes - ①,②, etc. See page 18.
Prices and **Seed Counts** - See page 18.

CERTIFIED-ORGANIC VARIETIES

All open-pollinated unless otherwise noted. See main body of catalog, beginning on p. 18, for descriptions, for sustainably and conventionally grown seed, and for section headers containing cultural information and sundry facts. For organic cover crops, see pp. 114–117.

STORE RACKS

103 and **104** See p. 18.

BEANS *Phaseolus vulgaris*

205PO Provider OG (50 days) CCOF, ID ①③
A=2oz, $1.90 **B**=8oz, $5.50 **C**=1lb, $10.00 **D**=5lb, $48.00
E=10lb, $90.00 **K**=25lb, $220.00 **L**=50lb, $400.00

225BO Royal Burgundy OG (55 days) ID ①
A=2oz, $1.90 **B**=8oz, $5.50 **C**=1lb, $10.50 **D**=5lb, $50.00
E=10lb, $90.00 **K**=25lb, $220.00 **L**=50lb, $400.00

249MO Maxibel OG (61 days) ①
A=½oz, $1.20 **B**=2oz, $2.50 **C**=8oz, $6.50 **D**=1lb, $12.00
E=5lb, $55.00 **K**=10lb, $95.00

262GO Golden Rocky OG (54 days) ID ①
A=2oz, $1.90 **B**=8oz, $5.50 **C**=1lb, $10.00 **D**=5lb, $48.00
E=10lb, $90.00 **K**=25lb, $220.00 **L**=50lb, $400.00

265NO Indy Gold OG (54 days) ID ①
A=2oz, $1.80 **B**=8oz, $4.50 **C**=1lb, $8.00 **D**=5lb, $36.00
E=10lb, $70.00 **K**=25lb, $160.00 **L**=50lb, $300.00

277DO Dragon Langerie OG (57 days) ID ①
A=2oz, $1.90 **B**=8oz, $5.50 **C**=1lb, $10.00 **D**=5lb, $48.00
E=10lb, $90.00 **K**=25lb, $220.00

280NO Northeaster Pole OG (55 days) *Members only special.* MOFGA ①
A=½oz, $1.60 **B**=2oz, $4.00

282FO Fortex OG (60 days) ID ①
A=½oz, $1.60 **B**=2oz, $4.00 **C**=8oz, $9.50

Fava Beans

299FO Gigante OG *Vicia faba* (90 days) **NEW!** OT ①
A=2oz, $2.40 **B**=8oz, $9.00 **C**=1lb, $15.00 **D**=5lb, $60.00

Dry Beans

307KO Black Kabouli Garbanzo OG *Cicer arietinum* (115 days) OCIA ①
A=2oz, $1.80 **B**=8oz, $5.50 **C**=1lb, $9.50 **D**=5lb, $40.00
E=10lb, $70.00

331CO Silver Cloud Cannellini OG (70 days shell, 90 days dry) ID ①
A=2oz, $1.90 **B**=8oz, $6.00 **C**=1lb, $10.00

335TO Tiger Eye OG (65 days shell, 85 days dry) ID ①
A=2oz, $1.90 **B**=8oz, $6.00 **C**=1lb, $11.00 **D**=5lb, $48.00
E=10lb, $90.00

340HO Hutterite OG (88 days) MOFGA ①
A=½oz, $1.30 **B**=2oz, $2.50 **C**=8oz, $8.00 **D**=1lb, $15.00
E=5lb, $50.00 **K**=10lb, $95.00

344JO Jacob's Cattle OG (88 days) MOFGA ①
A=2oz, $2.00 **B**=8oz, $6.50 **C**=1lb, $12.00 **D**=5lb, $50.00
E=10lb, $95.00 **K**=25lb, $220.00

366PO Agate Pinto OG (92 days) ICS ①
A=2oz, $2.10 **B**=8oz, $8.00 **C**=1lb, $14.00 **D**=5lb, $65.00
E=10lb, $120.00

371CO True Red Cranberry Pole OG (102 days) **BACK!** MOFGA ①
A=1oz, $1.80 **B**=2oz, $3.20 **C**=8oz, $10.00

SOYBEANS *Glycine max*

489FO Shirofumi OG (90 days) ID ①
A=½oz, $1.50 **B**=2oz, $4.00 **C**=8oz, $10.00 **D**=1lb, $18.00
E=5lb, $84.00

490TO Tankuro OG (90 days) **NEW!** OEFFA ①
A=½oz, $1.50 **B**=2oz, $4.00 **C**=8oz, $10.00 **D**=1lb, $18.00

492SO Sayamusume OG (92 days) OEFFA, MOFGA ①
A=½oz, $1.50 **B**=2oz, $4.00 **C**=8oz, $10.00 **D**=1lb, $18.00

SWEET CORN *Zea mays*

588LO Luscious OG (77 days) SE hybrid. NOFA-NY ⑤
A=2oz, $3.30 **B**=8oz, $13.00 **C**=1lb, $25.00 **D**=5lb, $120.00
E=10lb, $220.00 **K**=25lb, $440.00

616HO Painted Hills OG (80 days) Open-pollinated. MT ①
A=2oz, $3.00 **B**=8oz, $12.00 **C**=1lb, $23.00 **D**=5lb, $110.00
E=10lb, $210.00

ORNAMENTAL & DRY FIELD CORN

678DO Dakota Black Popcorn OG (100 days) ICS ①
A=2oz, $2.60 **B**=8oz, $10.00 **C**=1lb, $18.00
D=5lb, $85.00 **E**=10lb, $160.00

679BO Pennsylvania Dutch Butter Flavored Popcorn OG (102 days) QCS ①
A=2oz, $3.00 **B**=8oz, $11.50 **C**=1lb, $22.00
D=5lb, $100.00 **E**=10lb, $190.00

680PO Painted Mountain OG (85 days) MT ①
A=2oz, $4.00 **B**=8oz, $15.00 **C**=1lb, $28.00
D=5lb, $135.00 **E**=10lb, $260.00

682CO Abenaki Calais Flint OG (88 days) MOFGA ①
A=2oz, $2.40 **B**=8oz, $9.00 **C**=1lb, $17.00 **D**=5lb, $80.00
E=10lb, $150.00

688FO Floriani Red Flint OG (100 days) QCS ②
A=2oz, $2.30 **B**=8oz, $8.50 **C**=1lb, $16.00 **D**=5lb, $75.00

696GO Garland Flint OG (105 days) NOFA-VT ①
A=2oz, $2.00 **B**=8oz, $7.50 **C**=1lb, $14.00 **D**=5lb, $60.00
E=10lb, $110.00

PEAS *Pisum sativum*

761GO Green Arrow OG (65 days) ID ①
A=2oz, $2.00 **B**=8oz, $6.00 **C**=1lb, $10.00 **D**=5lb, $45.00
E=10lb, $80.00 **K**=25lb, $180.00

788MO Mayfair OG (72 days) CCOF ①
A=2oz, $2.50 **B**=8oz, $9.00

796VO Amplissimo Viktoria Soup Pea OG (90 days) MOFGA ①
A=1oz, $1.60 **B**=2oz, $3.00 **C**=8oz, $7.50

819GO Oregon Giant Snow Pea OG (60 days) ID ①
A=2oz, $2.00 **B**=8oz, $6.00 **C**=1lb, $10.00 **D**=5lb, $45.00
E=10lb, $80.00 **K**=25lb, $180.00

883GO Sugar Ann Snap Pea OG (58 days) ID ①
A=2oz, $2.00 **B**=8oz, $6.00 **C**=1lb, $10.00 **D**=5lb, $45.00
E=10lb, $80.00 **K**=25lb, $190.00 **L**=50lb, $350.00

889CO Cascadia OG (65 days) ID ①
A=2oz, $2.00 **B**=8oz, $6.00 **C**=1lb, $10.00 **D**=5lb, $45.00
E=10lb, $80.00 **K**=25lb, $190.00 **L**=50lb, $350.00

893SO Sugarsnap OG (68 days) ID ①
A=2oz, $2.00 **B**=8oz, $6.50 **C**=1lb, $11.00 **D**=5lb, $50.00
E=10lb, $85.00 **K**=25lb, $200.00 **L**=50lb, $380.00

MUSKMELON and CANTALOUPE *Cucumis melo*

908JO Jenny Lind OG (76 days) IA②
A=1/16oz, $2.00 **B**=1/4oz, $6.00 **C**=1/2oz, $11.00 **D**=2oz, $40.00

925GO Golden Gopher OG (85 days) OT ①
A=1/16oz, $1.60 **B**=1/4oz, $4.50 **C**=1/2oz, $7.50 **D**=1oz, $14.00

930PO Petit Gris de Rennes OG (85 days) **NEW!** IA ②
A=1/16oz, $1.80 **B**=1/4oz, $5.50 **C**=1/2oz, $9.00 **D**=1oz, $16.00

943FO Prescott Fond Blanc OG (88 days) **BACK!** IA ②
A=1/16oz, $1.80 **B**=1/4oz, $5.50 **C**=1/2oz, $9.50 **D**=1oz, $18.00

1059AO Arava Cantaloupe OG (80 days) F-1 hybrid. AGRIOR Ltd. ③
A=1g, $1.50 **B**=3g, $4.00 **C**=15g, $15.00

WATERMELON *Citrullus lanatus*

957MO Early Moonbeam OG (78 days) **BACK!** Stellar NOP ①
A=1/16oz, $1.60 **B**=1/4oz, $4.50 **C**=1/2oz, $7.50 **D**=1oz, $14.00

963SO Sugar Baby OG (80 days) CCOF ③
A=1/16oz, $1.10 **B**=1/4oz, $2.20 **C**=1/2oz, $4.00 **D**=1lb, $48.00

974DO Sweet Dakota Rose OG (82 days) ICS ①
A=1/16oz, $1.90 **B**=1/4oz, $5.50 **C**=1/2oz, $10.00 **D**=2oz, $34.00

989CO Crimson Sweet OG (90 days) CCOF ②③
A=1/16oz, $1.20 **B**=1/4oz, $3.00 **C**=1/2oz, $5.50 **D**=1lb, $60.00

992MO Moon and Stars OG (100 days) CCOF ③
A=1/16oz, $1.60 **B**=1/4oz, $5.00 **C**=1/2oz, $9.00 **D**=2oz, $25.00

PICKLING CUCUMBERS

1239LO Little Leaf H-19 OG (60 days) *Cucumis sativus* SC ①
A=1/16oz, $1.60 **B**=1/4oz, $3.50 **C**=1/2oz, $6.00 **D**=1oz, $11.00
E=4oz, $36.00 **K**=1lb, $135.00

SLICING CUCUMBERS *C. s.*

1308PO Poona Kheera OG (60 days) CCOF ①
A=1/16oz, $1.50 **B**=1/4oz, $2.80 **C**=1/2oz, $5.00 **D**=1oz, $8.00
E=4oz, $28.00 **K**=1lb, $90.00

1311BO Boothby's Blonde OG (63 days) CCOF ①
A=0.5g, $1.00 **B**=2g, $2.50 **C**=4g, $4.00 **D**=16g, $12.00
E=64g, $28.00 **K**=1/2lb, $80.00

1313MO Marketmore 76 OG (63 days) CCOF ②③
A=1/16oz, $1.10 **B**=1/4oz, $2.00 **C**=1/2oz, $3.50 **D**=1oz, $6.50
E=4oz, $13.00 **K**=1lb, $44.00

1394SO Suhyo Long OG (61 days) QCS ②
A=1g, $1.30 **B**=4g, $3.20 **C**=16g, $10.00 **D**=48g, $24.00

1396KO Shintokiwa OG (62 days) **NEW!** GOA ①
A=1g, $1.60 **B**=4g, $4.50 **C**=16g, $12.50 **D**=48g, $30.00

SUMMER SQUASH *Cucurbita pepo*

1457CO Costata Romanesca OG (60 days) CO ①
A=1/8oz, $1.40 **B**=1/4oz, $2.60 **C**=1/2oz, $4.50 **D**=1oz, $7.50
E=4oz, $22.00 **K**=1lb, $75.00

1520LO Lemon OG (50 days) **NEW!** CS ①
A=1/8oz, $1.60 **B**=1/4oz, $2.80 **C**=1/2oz, $5.20 **D**=1oz, $10.00
E=4oz, $36.00

1539CO Early Summer Yellow Crookneck OG (58 days) CCOF ③
A=1/8oz, $1.20 **B**=1/4oz, $2.20 **C**=1/2oz, $4.00
D=1oz, $6.50 **E**=4oz, $12.00 **K**=1lb, $40.00

1577YO Y-Star OG (48 days) F-1 hybrid. AGRIOR ③
A=1/16oz, $2.60 **B**=1/8oz, $5.00 **C**=1/4oz, $9.00
D=1oz, $32.00 **E**=4oz, $110.00

WINTER SQUASH *Cucurbita* spp.

1610PO Paydon OG (105 days) *C. pepo* CO ①
A=1/8oz, $1.80 **B**=1/4oz, $3.40 **C**=1/2oz, $6.00 **D**=1oz, $10.00
E=4oz, $32.00 **K**=1lb, $95.00

1611ZO Zeppelin Delicata OG (100 days) *C. p.* OT ①
A=1/8oz, $1.80 **B**=1/4oz, $3.40 **C**=1/2oz, $6.20 **D**=1oz, $12.00
E=4oz, $36.00 **K**=1lb, $125.00

1615QO Squisito OG (87 days) **BACK!** OT ①
A=1/8oz, $1.60 **B**=1/4oz, $2.80 **C**=1/2oz, $5.50 **D**=1oz, $10.00
E=4oz, $32.00

1618SO Sibley OG (100 days) *C. maxima* CO ①
A=1/8oz, $1.90 **B**=1/4oz, $3.50 **C**=1/2oz, $6.50 **D**=1oz, $11.00

1630DO Uncle David's Dakota Dessert OG (95 days) *C. m.* ICS ①
A=1/4oz, $1.80 **B**=1/2oz, $3.40 **C**=1oz, $6.60 **D**=4oz, $26.00
E=1lb, $100.00

1683BO Burpee's Butterbush OG (87 days) *C. moschata. Members-only special.* **BACK!** CCOF ①
A=1/8oz, $2.00

1685PO Ponca Butternut OG (90 days) *C. moschata* **BACK!** MOFGA ①
A=1/8oz, $1.80 **B**=1/4oz, $3.40 **C**=1/2oz, $6.50 **D**=1oz, $12.00
E=4oz, $45.00

1688WO Waltham Butternut OG (105 days) *C. mos.* CCOF ③
A=1/4oz, $1.30 **B**=1/2oz, $2.50 **C**=1oz, $4.80 **D**=4oz, $13.00
E=1lb, $42.00

1693SO Seminole OG (110 days) *C. mos.* QCS ②
A=1/8oz, $1.70 **B**=1/4oz, $3.20 **C**=1/2oz, $6.00 **D**=1oz, $11.00
E=4oz, $40.00

PUMPKINS *Cucurbita pepo*

1718WO Winter Luxury Pie OG (100 days) OT ①
A=1/8oz, $1.60 **B**=1/4oz, $3.00 **C**=1/2oz, $5.50 **D**=1oz, $10.00
E=4oz, $30.00 **K**=1lb, $110.00

1720NO New England Pie OG (102 days) CCOF ③
A=1/4oz, $1.30 **B**=1/2oz, $2.50 **C**=1oz, $4.00 **D**=4oz, $11.00
E=1lb, $38.00

1723LO Long Pie OG (102 days) MOFGA ①
A=1/8oz, $1.40 **B**=1/4oz, $2.60 **C**=1/2oz, $4.40 **D**=1oz, $7.50

1729YO Young's Beauty OG (105 days) MOFGA, CO ①
A=1/8oz, $1.40 **B**=1/4oz, $2.60 **C**=1/2oz, $4.20 **D**=1oz, $7.50
E=4oz, $23.00 **K**=1lb, $85.00

1752HO Howden OG (115 days) ICS ①
A=1/8oz, $1.30 **B**=1/4oz, $2.40 **C**=1/2oz, $3.80 **D**=1oz, $7.50
E=4oz, $16.00 **K**=1lb, $58.00

CARROTS *Daucus carota*

2068AO Atomic Red OG (74 days) CCOF ③
A=1g, $1.80 **B**=3g, $5.00 **C**=6g, $8.00 **D**=24g, $20.00
E=120g, $90.00

2076DO Danvers 126 OG (75 days) CCOF ②③
A=1/8oz, $1.20 **B**=1/2oz, $4.00 **C**=1oz, $7.50 **D**=4oz, $16.00
E=1lb, $58.00 **K**=5lb, $280.00

2079KO Scarlet Keeper OG (85 days) *Members-only special.* OT ②
A=1g, $1.30 **B**=3g, $3.20 **C**=6g, $5.50

2093YO Yaya OG (58 days) F-1 hybrid. SKAL ④
A=1g, $2.00 **B**=3g, $5.50 **C**=6g, $9.50 **D**=24g, $30.00
E=120g, $140.00

BEETS *Beta vulgaris*

2109WO Early Wonder Tall Top OG (48 days) CCOF ③
A=1/8oz, $1.00 **B**=1/2oz, $1.80 **C**=1oz, $3.30
D=4oz, $7.50 **E**=1lb, $25.00 **K**=5lb, $120.00

2121RO Red Ace OG (50 days) PA ⑤
A=1/8oz, $2.00 **B**=1/2oz, $6.00 **C**=1oz, $10.00
D=4oz, $36.00 **E**=1lb, $140.00

2128GO 3 Root Grex OG (54 days) ICS ①
A=1/8oz, $1.50 **B**=1/2oz, $4.00 **C**=1oz, $7.00
D=4oz, $22.00 **E**=1lb, $80.00

2137CO Chioggia Guardsmark OG (55 days) WA ⑤
A=1/8oz, $1.50 **B**=1/2oz, $4.00 **C**=1oz, $7.00
D=4oz, $20.00 **E**=1lb, $72.00

2144GO Golden Detroit OG (55 days) CCOF ③
A=1/8oz, $2.00 **B**=1/2oz, $6.50 **C**=1oz, $12.00 **D**=4oz, $36.00
E=1lb, $140.00

2149TO Touchstone OG (55 days) WA ⑤
A=1/8oz, $1.80 **B**=1/2oz, $6.20 **C**=1oz, $11.00 **D**=4oz, $38.00

2187BO Bull's Blood OG (60 days) PA ⑤
A=1/8oz, $1.40 **B**=1/2oz, $3.20 **C**=1oz, $5.50 **D**=4oz, $16.00
E=1lb, $50.00

RADISHES *Raphanus sativus*

2253PO Plum Purple OG (26 days) OT, Stellar NOP ①④
A=1/8oz, $1.50 **B**=1/2oz, $4.20 **C**=1oz, $8.00 **D**=4oz, $25.00
E=1lb, $95.00

2268MO Misato Rose OG (60 days) MT ①
A=1/8oz, $1.40 **B**=1/2oz, $5.00 **C**=1oz, $8.00 **D**=4oz, $24.00
E=1lb, $80.00

PARSNIPS *Pastinaca sativa*

2306DO Andover OG (120 days) OT ①
A=1/8oz, $1.60 **B**=1/2oz, $4.20 **C**=1oz, $8.00 **D**=4oz, $25.00
E=1lb, $90.00

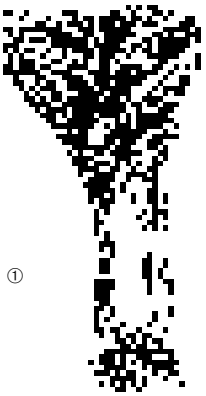
SKIRRET *Sium sisarum*

2327KO Skirret OG (120 days) MOFGA ①
A=0.2g, $1.00 **B**=1g, $2.50 **C**=4g, $8.00

TURNIPS *Brassica rapa*

2379WO Purple Top White Globe OG (50 days) CCOF ③
A=1/8oz, 90¢ **B**=1/2oz, $1.60 **C**=1oz, $2.80 **D**=4oz, $5.50
E=1lb, $17.00 **K**=5lb, $80.00

LEEKS & ONIONS *Allium* spp.



2407RO King Richard Leek OG (84 days) *A. porrum* OT, CCOF ①②
A=1/16oz, $1.60 **B**=1/8oz, $3.00 **C**=1/2oz, $7.00
D=1oz, $12.00 **E**=4oz, $36.00 **K**=1lb, $140.00

2411SO King Sieg Leek OG (84 days) *A. p.* OT ①
A=1/16oz, $1.60 **B**=1/8oz, $3.00 **C**=1/2oz, $7.00
D=1oz, $12.00 **E**=4oz, $36.00 **K**=1lb, $130.0

2449YO New York Early OG (98 days) *A. cepa* OT ①
A=1/16oz, $1.60 **B**=1/8oz, $3.00 **C**=1/2oz, $7.00
D=1oz, $12.00 **E**=4oz, $36.00 **K**=1lb, $140.00

2489DO Dakota Tears Onion OG (112 days) *A. c.* ICS ①
A=1/16oz, $1.50 **B**=1/8oz, $2.80 **C**=1/2oz, $8.00
D=1oz, $15.00 **E**=4oz, $52.00

SPINACH *Spinacea oleracea*

2541BO Bloomsdale OG (42 days) OT, CCOF ①③
A=1/4oz, $1.10 **B**=1/2oz, $2.00 **C**=1oz, $3.50
D=4oz, $12.00 **E**=1lb, $45.00 **K**=5lb, $210.00

2551TO Tyee OG (44 days) WA ⑤
A=1/4oz, $1.30 **B**=1/2oz, $2.40 **C**=1oz, $3.80

2558WO Winter Bloomsdale OG (47 days) **BACK!** OT ①
A=1/4oz, $1.40 **B**=1/2oz, $2.50 **C**=1oz, $4.00 **D**=4oz, $12.00
E=1lb, $45.00 **K**=5lb, $200.00

LETTUCE *Lactuca sativa*

Looseleaf and Oakleaf

2712BO Black Seeded Simpson OG CCOF ③
A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $3.00 **D**=28g, $5.00
E=112g, $11.00 **K**=448g, $38.00

2713GO Green Ice OG (45 days) OT ②
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $5.00 **D**=14g, $12.00
E=28g, $20.00 **K**=112g, $70.00

2719BO Bronze Arrowhead OG (45 days) OT ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.50 **D**=14g, $6.50
E=28g, $12.00 **K**=112g, $45.00

2723SO Salad Bowl OG (46 days) CCOF ③
A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $3.20 **D**=28g, $5.50
E=112g, $12.00 **K**=448g, $44.00 **L**=5lb, $210.00

2729RO Red Salad Bowl OG (46 days) CCOF ③
A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $3.20 **D**=28g, $5.50
E=112g, $12.00 **K**=448g, $44.00 **L**=5lb, $210.00

2731CO Cracoviensis OG (47 days)OT ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.50 **D**=14g, $6.50
E=28g, $13.00 **K**=112g, $48.00

2732GO Strela Green OG (47 days) OT ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $5.20 **D**=14g, $8.00
E=28g, $12.00 **K**=112g, $40.00

2738AO Antares OG (48 days) OT ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2740DO Green Deer Tongue OG (48 days) OT ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.50 **D**=14g, $6.50
E=28g, $12.00 **K**=112g, $40.00

2744RO Really Red Deer Tongue OG (48 days) OT ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2761RO Red Sails OG (49 days) Stellar NOP, CCOF ①
A=2g, $1.60 **B**=4g, $2.80 **C**=14g, $7.00 **D**=28g, $13.00
E=112g, $45.00 **K**=448g, $160.00

2764BO Blushed Butter Oaks OG (49 days) OT ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $62.00

2766YO Australian Yellow OG (50 days) **NEW!** OT ①
A=1g, $1.60 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $11.00
E=28g, $20.00 **K**=112g, $70.00

2767DO Les Oreilles du Diable OG (50 days) Stellar NOP ①
A=1g, $1.30 **B**=2g, $2.50 **C**=4g, $3.50 **D**=14g, $7.00
E=28g, $13.00 **K**=112g, $45.00

2768CO Lingua di Canarino OG (50 days) OT ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.50 **D**=14g, $6.50
E=28g, $12.00 **K**=112g, $40.00

2771YO Royal Oakleaf OG (50 days) CCOF ③
A=1g, $1.00 **B**=2g, $1.80 **C**=4g, $3.20 **D**=14g, $7.00
E=28g, $11.00 **K**=112g, $32.00

2773HO Hyper Red Rumple Waved OG (50 days) OT ①
A=1g, $1.40 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2775FO New Red Fire OG (51 days) Stellar NOP, MCCO ①⑤
A=1g, $1.40 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2781XO Merlox Red Oak OG (53 days) OT ①
A=1g, $2.50 **B**=2g, $4.80 **C**=4g, $9.00 **D**=14g, $30.00
E=28g, $50.00

2784FO Flashy Green Butter Oak OG (54 days) OT ①
A=1g, $1.50 **B**=2g, $2.60 **C**=4g, $4.50 **D**=14g, $10.00
E=28g, $20.00 **K**=112g, $60.00

2785TO Italienischer OG (55 days) OT ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $7.00
E=28g, $12.00 **K**=112g, $40.00

2786WO Red Tinged Winter OG/BD (60 days) OT ①
A=1g, $1.50 **B**=2g, $2.60 **C**=4g, $4.00 **D**=14g, $6.50
E=28g, $12.00 **K**=112g, $44.00

2787BO De Morges Braun OG (64 days) OT ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.50 **D**=14g, $9.00
E=28g, $17.00 **K**=112g, $55.00

2788OO Oscarde OG (30 days baby, 45 mature) **NEW!** OT ①
A=1g, $2.50 **B**=2g, $4.80

2789MO Merlot OG (32 days baby, 60 mature) OT ①
A=1g, $1.70 **B**=2g, $3.00 **C**=4g, $4.80 **D**=14g, $15.00
E=28g, $28.00 **K**=112g, $100.00

2791TO Tango OG (45 days) CCOF ③
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $7.50
E=28g, $11.00 **K**=112g, $38.00

2793LO Dark Lollo Rossa OG (53 days) CCOF ②
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $5.00
E=28g, $9.00 **K**=112g, $30.00

2795VO Lollo di Vino OG (56 days) OT ①
A=1g, $1.80 **B**=2g, $3.50 **C**=4g, $6.00 **D**=14g, $16.00
E=28g, $30.00 **K**=112g, $95.00

Bibb and Butterhead

2814NO North Pole OG/BD (51 days) OT ①
A=1g, $1.60 **B**=2g, $3.00 **C**=4g, $5.50 **D**=14g, $9.00
E=28g, $16.00 **K**=112g, $50.00

2828PO Pirat OG (55 days) OT ①
A=1g, $1.30 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $60.00

2831SO Speckled OG (55 days) OT ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2834VO Sweet Valentine OG (56 days) CCOF ⑤
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $16.00 **K**=112g, $50.00

2836YO Red-Earred Butterheart OG (56 days) **NEW!** OT ①
A=1g, $1.80 **B**=2g, $3.50 **C**=4g, $6.00 **D**=14g, $16.00
E=28g, $30.00 **K**=112g, $95.00

2841NO Nancy OG (58 days) OT ①
A=1g, $1.80 **B**=2g, $3.40 **C**=4g, $5.50
D=14g, $9.00 **E**=28g, $16.00
K=112g, $48.00

Romaine, Cos, Batavian, Crisphead

2854BO Blushed Butter Cos OG (49 days) OOT ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80
D=14g, $10.50 **E**=28g, $20.00 **K**=112g, $60.00

2856JO Mayan Jaguar OG (51 days) **NEW!** OT ①
A=1g, $2.40 **B**=2g, $4.50 **C**=4g, $8.00
D=14g, $25.00 **E**=28g, $45.00

2858FO Forellenschluss OG (56 days) CCOF ③
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $7.00
E=28g, $11.00 **K**=112g, $25.00

2861JO Jericho OG (60 days) OT ①
A=1g, $1.30 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $50.00

2874LO Olga OG (66 days) OT ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $70.00

2877MO Marshall OG (67 days) OT ②
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $5.00 **D**=14g, $12.00
E=28g, $20.00 **K**=112g, $48.00

2883CO Crisp Mint OG (70 days) OT, Stellar NOP ①②
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $17.00 **K**=112g, $55.00

2886WO Winter Wonderland OG (70 days) OT ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $17.00 **K**=112g, $55.00

2905DO Cardinale OG (48 days) OT ①
A=1g, $1.60 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $11.00
E=28g, $20.00 **K**=112g, $75.00

2907SO Sierra OG (50 days) Stellar NOP ①
A=1g, $1.40 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

2908TO Concept OG (51 days) Stellar NOP ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

2919PO Pablo OG (68 days) Stellar NOP ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

2921NO Anuenue OG (72 days) CCOF ①
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

2922RO Red Iceberg OG (63 days) Stellar NOP, OT ①
A=1g, $1.40 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

Mixes

2981LO Lettuce Mix OG ③
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $15.00 **K**=112g, $55.00

2983DO DeLuxe Lettuce Mix OG
A=1g, $1.60 **B**=2g, $3.00 **C**=4g, $5.00 **D**=14g, $12.00
E=28g, $20.00 **K**=112g, $75.00

2984FO Freedom Mix OG NEW! OT ①
A=1g, $2.20 **B**=2g, $4.00 **C**=4g, $7.00 **D**=14g, $22.00
E=28g, $40.00

2985RO Red Carpet Mix OG OG
A=1g, $1.50 **B**=2g, $2.60 **C**=4g, $4.50 **D**=14g, $11.00
E=28g, $18.00 **K**=112g, $65.00

2993GO Greens Mix OG
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $16.00 **K**=112g, $55.00

GREENS

3021BO Ice-Bred Arugula OG (47 days) *Eruca sativa* MD ①
A=1g, $2.00 **B**=2g, $3.80 **C**=4g, $7.00 **D**=1oz, $36.00
E=4oz, $140.00

3023AO Arugula OG (47 days) *E. s.* OCIA ②
A=1/16oz, $1.00 **B**=1/8oz, $2.00 **C**=1/2oz, $3.00 **D**=1oz, $4.00
E=4oz, $7.00 **K**=1lb, $25.00 **L**=5lb, $120.00

3038GO Golden Chard OG (56 days) *B. v.* (cicla group) OT ①
A=1/16oz, $1.30 **B**=1/8oz, $2.50 **C**=1/2oz, $4.80 **D**=1oz, $8.50
E=4oz, $30.00 **K**=1lb, $110.00

3041RO Rhubarb Chard OG (59 days) *B. v.* CCOF ③⑤
A=1/16oz, $1.00 **B**=1/8oz, $1.80 **C**=1/2oz, $2.80 **D**=1oz, $4.50
E=4oz, $12.00 **K**=1lb, $42.00

3045CO Chervil OG (60 days) *Anthriscus cerefolium* OT, BSO ①
A=1/16oz, $1.00 **B**=1/8oz, $1.80 **C**=1/2oz, $4.50 **D**=1oz, $8.00
E=4oz, $20.00 **K**=1lb, $70.00

3056WO Wrinkled Crinkled Crumpled Cress OG (30 days) *L. s.* OT ①
A=1/16oz, $1.20 **B**=1/8oz, $2.20 **C**=1/2oz, $4.20 **D**=1oz, $8.00
E=4oz, $20.00 **K**=1lb, $72.00

3063FO Très Fine Maraîchère Olesh Endive OG (42 days) *C. e.* AGRIOR ③
A=1/16oz, $1.80 **B**=1/8oz, $3.40 **C**=1/2oz, $12.00 **D**=1oz, $22.00
E=4oz, $80.00 **K**=1lb, $280.00

3148RO Red Orach OG (38 days) *A. hortensis* Stellar NOP, CCOF ①②
A=1/16oz, $1.40 **B**=1/8oz, $2.50 **C**=1/2oz, $9.00 **D**=1oz, $15.00
E=4oz, $50.00

3170DO Dark Green Italian Parsley OG (78 days) *P. c.* WA ⑤
A=1/16oz, $1.10 **B**=1/8oz, $2.00 **C**=1/2oz, $3.50 **D**=1oz, $6.00
E=4oz, $15.00 **K**=1lb, $56.00

3182GO Golden Purslane OG (50 days) *P. o.* var. *sativa* OT ①
A=0.5g, $1.40 **B**=1g, $2.50 **C**=2g, $4.50 **D**=8g, $9.00
E=16g, $16.00 **K**=32g, $30.00

ASIAN GREENS *Brassica* spp.

3222TO Tatsoi OG (45 days) *B. rapa* (narinosa group) OT ①
A=1/16oz, $1.30 **B**=1/8oz, $2.40 **C**=1/2oz, $4.00 **D**=1oz, $8.00
E=4oz, $23.00 **K**=1lb, $90.00

3228MO Early Mizuna OG (40 days) *B. r.* (japonica group) MCCO ⑤
A=1/16oz, $1.10 **B**=1/8oz, $2.00 **C**=1/2oz, $3.50 **D**=1oz, $5.00
E=4oz, $16.00 **K**=1lb, $45.00 **L**=5lb, $210.00

3229RO Ruby Streaks OG (40 days) *B. r.* WA ①
A=1/16oz, $1.30 **B**=1/8oz, $2.40 **C**=1/2oz, $5.00 **D**=1oz, $8.00
E=4oz, $25.00 **K**=1lb, $95.00

3230MO Mizspoona Salad Selects GP OG (40 days) *B. r.* OT ①
A=1/16oz, $1.40 **B**=1/8oz, $2.50 **C**=1/2oz, $6.50 **D**=1oz, $12.00
E=4oz, $40.00 **K**=1lb, $125.00

3232PO Pung Pop Mustard Gene Pool OG (40 days) *B. juncea* OT ①
A=1/16oz, $1.40 **B**=1/8oz, $2.50 **C**=1/2oz, $6.50 **D**=1oz, $12.00
E=4oz, $40.00 **K**=1lb, $125.00

3234LO Pink Lettucy Mustard Gene Pool OG (40 days) *B. r.* OT ①
A=1/16oz, $1.40 **B**=1/8oz, $2.50 **C**=1/2oz, $6.50 **D**=1oz, $12.00
E=4oz, $42.00 **K**=1lb, $130.00

3236RO Red Giant Mustard OG (45 days) *B. j.* CCOF ③
A=1/16oz, $1.10 **B**=1/8oz, $2.20 **C**=1/2oz, $3.60 **D**=1oz, $5.50
E=4oz, $13.00 **K**=1lb, $45.00

3239PO Osaka Purple Mustard OG (45 days) *B. j.* AGRIOR ③
A=1/16oz, $1.20 **B**=1/8oz, $2.20 **C**=1/2oz, $4.00 **D**=1oz, $7.00
E=4oz, $16.00 **K**=1lb, $60.00

3253ZO Torziroh OG (45 days) *B. alboglabra* OT ①
A=1/16oz, $1.30 **B**=1/8oz, $2.40 **C**=1/2oz, $5.00 **D**=1oz, $8.00
E=4oz, $25.00

3270PO Prize Choy Pac Choi OG (50 days) *B. r.* WA ①
A=1/16oz, $1.40 **B**=1/8oz, $2.50 **C**=1/2oz, $6.50 **D**=1oz, $12.00
E=4oz, $40.00 **K**=1lb, $115.000

BROCCOLI *B. oleracea* (botrytis group)

3313FO Fiesta OG (86 days) F-1 hybrid. SKAL ④
A=0.2g, $2.30 **B**=0.4g, $4.20 **C**=1g, $9.00
D=4g, $32.00 **E**=28g, $170.00

3318TO Thompson OG (92 days) Open-pollinated. **BACK!** CCOF ①
A=0.5g, $1.60 **B**=1g, $3.00 **C**=4g, $10.00
D=14g, $32.00 **E**=28g, $60.00

3329TO Tipoff OG (100 days) F-1 hybrid. SKAL ④
A=0.1g, $2.50 **B**=0.3g, $7.00 **C**=1.2g, $25.00
D=6g, $100.00 **E**=24g, $360.00

COLLARDS *B. o.* (acephala group)

3443GO Cascade Glaze OG (60 days) WA ①
A=2g, $1.50 **B**=4g, $2.80 **C**=14g, $6.00 **D**=28g, $10.00

KALE *Brassica* spp.

3456RO Red Russian OG (60 days) *B. napus* CCOF ③
A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $3.50 **D**=28g, $5.50
E=112g, $14.00 **K**=448g, $44.00 **L**=5lb, $190.00

3459WO White Russian OG (60 days) *B. n.* OT ①
A=2g, $1.50 **B**=4g, $2.80 **C**=14g, $8.00 **D**=28g, $13.00
E=112g, $42.00 **K**=448g, $150.00

3465BO Beedy's Camden OG (60 days) *B. o.* OT ①
A=2g, $1.50 **B**=4g, $2.80 **C**=14g, $6.00 **D**=28g, $10.00
E=112g, $30.00 **K**=448g, $110.00

3466LO Rainbow Lacinato OG (61 days) *B. o.* OT ①
A=2g, $1.50 **B**=4g, $2.80 **C**=14g, $8.00 **D**=28g, $12.50
E=112g, $44.00

GLOBE ARTICHOKE *Cynara scolymus*

3608SO Imperial Star OG (120 days) AGRIOR ③
A=0.5g, $1.30 **B**=1g, $2.40 **C**=4g, $8.00 **D**=28g, $38.00

CELERY *Apium graveolens*

3621PO Par-Cel Cutting Celery OG (72 days) BSO ①
A=0.2g, $1.20 **B**=0.4g, $2.20 **C**=1g, $4.40
D=4g, $10.00 **E**=28g, $28.00

3624VO Ventura Celery OG (80 days) Stellar NOP ②
A=0.1g, $2.20 **B**=0.2g, $4.00 **C**=0.4g, $7.00
D=2g, $20.00 **E**=10g, $90.00

3630RO Redventure OG (84 days) F-1 hybrid. OT ①
A=0.2g, $1.20 **B**=0.4g, $2.20 **C**=1g, $3.60
D=4g, $6.50 **E**=28g, $24.00

3634TO Tango OG (91 days) F-1 hybrid. SKAL ④
A=0.1g, $2.70 **B**=0.2g, $5.20 **C**=0.4g, $10.00
D=2g, $33.00 **E**=10g, $155.00

3645BO Brilliant Celeriac (100 days) *A. g.* var. *rapaceum* OT ①
A=0.2g, $3.30 **B**=0.4g, $6.50 **C**=1g, $16.00
D=4g, $62.00 **E**=12g, $180.00

EGGPLANT *Solanum melongena*

3678AO Applegreen OG (70 days) IA ②
A=0.2g, $1.70 **B**=0.4g, $3.00 **C**=1g, $6.50 **D**=4g, $22.00
E=28g, $150.00

3684DO Diamond OG (78 days) OT ①
A=0.2g, $1.50 **B**=0.4g, $2.40 **C**=1g, $4.00 **D**=4g, $6.00
E=28g, $30.00

3688RO Rosita OG (84 days) QCS ②
A=0.2g, $1.50 **B**=0.4g, $2.50 **C**=1g, $4.00 **D**=4g, $15.00
E=28g, $80.00

3691BO Rosa Bianca OG (88 days) AGRIOR ③
A=0.2g, 90¢ **B**=0.4g, $1.60 **C**=1g, $2.60 **D**=4g, $4.20
E=28g, $18.00

OKRA *Abelmoschus esculentus*

3695JO Cajun Jewel OG (65 days) QCS ②
A=2g, $1.10 **B**=4g, $2.00 **C**=28g, $8.00 **D**=112g, $22.00
E=448g, $82.00

3697GO Red Burgundy OG (80 days) CCOF ③
A=2g, 90¢ **B**=4g, $1.60 **C**=28g, $3.50 **D**=112g, $12.00

3699BO Beck's Big Buck OG (85 days) QCS ②
A=2g, $1.20 **B**=4g, $2.00 **C**=28g, $8.00 **D**=112g, $28.00

SWEET PEPPERS *Capsicum annuum*

3706NO King of the North OG (70 days) CO ①
A=0.2g, $1.20 **B**=0.4g, $1.80 **C**=1g, $3.00
D=2g , $5.50 **E**=4g, $10.00

3723PO Purple Beauty OG (74 days) ID ①
A=0.5g, $1.10 **B**=1g, $1.80 **C**=2g, $3.00
D=4g, $5.00 **E**=28g, $20.00

3728SO Staddon's Select OG (74 days) **BACK!** OEFFA ①
A=0.5g, $1.20 **B**=1g, $2.20 **C**=2g, $4.00
D=4g, $7.00 **E**=28g, $30.00

3731JO Jimmy Nardello's OG (76 days) MOFGA ①
A=0.2g, $1.70 **B**=0.4g, $3.00 **C**=1g, $5.50 **D**=2g, $9.50
E=4g, $15.00

3735CO Chocolate OG (80 days) MOFGA ①
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.50 **D**=2g, $10.00
E=4g, $18.00

3744TO Tangerine Pimiento OG (85 days) OEFFA ①
A=0.2g, $1.40 **B**=0.4g, $2.50 **C**=1g, $4.00

3746FO Feherozon OG (90 days) ID ①
A=0.2g, $1.20 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $5.50
E=4g, $10.00

HOT PEPPERS

3751PO Hot Portugal OG (64 days) MOFGA ①
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.50 **D**=2g, $9.00
E=4g, $16.00

3753BO Czech Black OG (65 days) MOFGA ①
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.50 **D**=2g, $9.00
E=4g, $16.00

3773MO Matchbox OG (75 days) MOFGA ①
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.50 **D**=2g, $9.00
E=4g, $16.00

3781FO Fish OG (80 days) QCS ②
A=0.2g, $1.40 **B**=0.4g, $2.50 **C**=1g, $4.80

3783TO Thai Hot OG (82 days) MOFGA ①
A=0.2g, $1.80 **B**=0.4g, $3.20 **C**=1g, $5.50 **D**=2g, $8.50
E=4g, $16.50 **K**=14g, $55.00

3794HO Hinkelhatz OG (88 days) MOFGA, IA ①②
A=0.2g, $1.80 **B**=0.4g, $3.20 **C**=1g, $6.00 **D**=2g, $10.00
E=4g, $18.00

SWEET PEPPERS

3836CO Carmen OG (70 days) F-1 hybrid MOFGA ③
A=0.1g, $2.00 **B**=0.2g, $3.80 **C**=0.4g, $7.00 **D**=1g, $16.00
E=2g, $30.00 **K**=8g, $100.00

PHYSALIS *P. ixocarpa*

4015VO Verde Puebla Tomatillo OG (77 days) OT ①
A=0.2g, $1.40

TOMATOES *Lycopersicon esculentum*

4018LO Glacier OG (56 days) Det. WA, MOFGA ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4025SO Oregon Spring OG (58 days) Det. ICS, OT ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4032GO Ida Gold OG (59 days) Det. MT ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4038CO Cosmonaut Volkov OG (65 days) Ind. MOFGA ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4045PO Garden Peach OG (71 days) Stellar NOP, OT ①④
A=0.2g, $1.50 **B**=0.4g, $2.50 **C**=1g, $4.00 **D**=2g, $6.50
E=10g, $25.00

4049RO Pruden's Purple OG (72 days) Ind. OT ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4053PO Black Prince OG (75 days) Ind. MOFGA ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4055TO Rutgers OG (75 day) Ind. OT ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4056GO Green Zebra OG (77 day) Ind. OT ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4059CO Cherokee Purple OG (77 days) Ind. Stellar NOP, OT ①④
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4060BO Paul Robeson OG (78 days) Ind. OT ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00

4061KO Black Krim OG (80 days) Ind. OT, Stellar NOP ①④
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4065JO Jubilee OG (80 days) Ind. CCOF ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4067RO Rose de Berne OG (80 days) Ind.OEFFA, CO ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4069GO German Johnson OG (80 days) Ind. OT ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4071SO Soldacki OG (80 days) Ind. MOFGA ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4075BO Pink Brandywine OG (82 days) Ind. ICS, Stellar NOP ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4076YO Yellow Brandywine OG (82 days) Ind. **BACK!** MOFGA, QCS ①②
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4077NO Pineapple OG (85 days) Ind. OEFFA ①
A=0.2g, $1.50 **B**=0.4g, $2.50 **C**=1g, $4.00 **D**=2g, $6.50
E=10g, $25.00

4080AO Aunt Ruby's German Green OG (85 days) Ind. IA, OT ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4084HO Schimmeig Striped Hollow OG (85 days) Ind. MOFGA ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50

4087TO Tiffen Mennonite OG (86 days) Ind. OT ②
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4093GO Goldie OG (90 days) Ind. MOFGA ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4097RO Ruby Gold OG (90 days) Ind. **BACK!** MOFGA ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4238LO Luci 2103 OG (68 days) Ind. F-1 hybrid **NEW!** AGRIOR ③
A=0.1g, $2.20 **B**=0.2g, $4.00 **C**=0.4g, $7.00 **D**=1g, $16.00
E=4g, $56.00

Cherry Tomatoes

4108BO Be My Baby OG (65 days) Ind. CO ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60
D=2g, $6.00 **E**=10g, $22.00

4115BO Black Cherry OG (75 days) Ind. CCOF ①②
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50
D=2g, $6.00 **E**=10g, $22.00

4117PO Principe Borghese Cherry OG (75 days) Vig. Det. MOFGA ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4119VO Peacevine Cherry OG (78 days) Ind. Stellar NOP, CO ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00
E=10g, $22.00

4121DO Green Doctors Frosted Cherry OG (79 days) Ind. **NEW!** MOFGA ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00
E=10g, $22.00

4122FO Fargo Yellow Pear OG (82 days) Ind. ICS ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

Paste Tomatoes

4123MO Mr. Fumo OG (65 days) Ind. **BACK!** CO ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00 **E**=10g, $22.00

4125HO Heinz 2653 OG (68 days) Det. OEFFA ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4131GO Grandma Mary's OG (68 days) Ind. **BACK!** MOFGA, VOF ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4133LO Bellstar OG (74 days) Det. MOFGA ③
A=0.2g, $1.80 **B**=0.4g, $3.20 **C**=1g, $5.00 **D**=2g, $9.50 **E**=10g, $40.00

4135PO Opalka OG (82 days) Ind. MOFGA ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00 **E**=10g, $22.00

6435RO Speckled Roman OG (85 days) Ind. OT ①
A=0.2g, $1.00 **B**=0.4g, $1.60 **C**=1g, $2.50

4137NO Orange Banana OG (85 days) Ind. MOFGA ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00 **E**=10g, $22.00

4138CO Casady's Folly OG (85 days) Det. **NEW!** OT ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $22.00

4140AO Amish Paste OG (85 days) Ind. MOFGA, ICS ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4141HO Hog Heart OG (86 days) Ind. VOF ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4146BO Blue Beech OG (90 days) Ind. MOFGA ①
A=0.2g, $1.50 **B**=0.4g, $2.50 **C**=1g, $4.00 **D**=2g, $7.00 **E**=10g, $30.00

4149MO Heirloom Tomato Mix OG
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

HERBS

4407AO Anise Hyssop OG *Agastache fœniculum* MT ①
A=0.2g, $1.10 **B**=1g, $2.40 **C**=5g, $5.50 **D**=25g, $14.00

4409RO Arnica Chamissonis OG *A. c.* CCOF ①
A=0.02g, $1.20 **B**=0.1g, $3.00

4411WO Ashwagandha OG *Withania somnifera* OT ②
A=1g, $1.40 **B**=4g, $3.00 **C**=12g, $8.00

4412TO Astragalus OG *A. membranaceus* OT ②
A=.5g, $1.20 **B**=3g, $3.00 **C**=9g, $9.00

Basil *Ocimum basilicum*

4415WO Sweet OG *Tested for fusarium.* PA, WA ②⑤
A=4g, $1.50 **B**=28g, $5.00 **C**=112g, $15.00 **D**=336g, $28.00

4441RO Aromato OG *Not tested for fusarium.* AGRIOR ③
A=0.5g, $1.30 **B**=3g, $2.50 **C**=12g, $6.00 **D**=36g, $15.00

4448LO Lemon OG *O. b. citriodorum. Not tested for fusarium.* CCOF ③
A=0.5g, $1.20 **B**=4g, $2.50 **C**=16g, $6.00 **D**=48g, $14.00

4453LO Lime OG *Tested for fusarium.* CCOF ③
A=0.25g, $1.30 **B**=1g, $3.00 **C**=4g, $5.00 **D**=16g, $9.00

4464BO Sacred OG *O. sanctum. Not tested for fusarium.* OT ①
A=0.1g, $1.20 **B**=1g, $2.50 **C**=7g, $7.00 **D**=21g, $15.00

4481WO Wild Bergamot OG *Monarda fistulosa* OT, MOFGA ①
A=0.1g, $1.20 **B**=0.4g, $2.80 **C**=2g, $6.00

4484HO Blessed Thistle OG *Cnicus benedictus* ICS ①
A=0.25g, $1.50 **B**=1g, $3.00 **C**=4g, $10.00

4491BO Borage OG *Borago officinalis* CCOF ③
A=0.5g, $1.10 **B**=4g, $2.80 **C**=16g, $8.00 **D**=80g, $24.00

4512CO Chives OG *Allium schoenoprasum* ID, CCOF ①③
A=0.5g, $1.20 **B**=7g, $2.80 **C**=28g, $7.50 **D**=112g, $22.00

4517RO Caribe Cilantro OG *Coriandrum sativum* SKAL ④
A=1g, $1.00 **B**=4g, $2.50 **C**=28g, $5.00 **D**=112g, $15.00 **E**=448g, $48.00

4531BO Bouquet Dill OG *Anethum graveolens* CCOF ③
A=2g, $1.00 **B**=8g, $2.20 **C**=40g, $5.00 **D**=200g, $12.00

4547CO Echinacea OG *E. purpurea* MOFGA, OT ①②
A=1g, $1.20 **B**=4g, $2.80 **C**=16g, $6.50 **D**=48g, $15.00

4567BO Bronze Fennel OG *Foeniculum vulgare* OT ①
A=0.2g, $1.20 **B**=0.6g, $2.50 **C**=3g, $6.00 **D**=30g, $15.00

4572FO Feverfew OG *Tanacetum parthenium* WA ①
A=0.1g, $1.40 **B**=0.4g, $3.20 **C**=2g, $8.00 **D**=8g, $24.00

4619MO Marshmallow OG *Althaea officinalis* MOFGA ①
A=0.4g, $1.20 **B**=1.2g, $2.80 **C**=6g, $6.50 **D**=24g, $15.00

4630TO Milk Thistle OG *Silybum marianum* OT ②
A=1g, $1.00 **B**=4g, $2.50 **C**=28g, $6.00

4640MO Motherwort OG *Leonurus cardiaca* WA ①
A=0.2g, $1.40 **B**=1g, $3.40 **C**=3g, $10.00 **D**=9g, $25.00

4644SO Stinging Nettle OG *Urtica dioica* OT ①
A=0.2g, $1.40 **B**=0.6g, $3.00 **C**=2.4g, $7.00 **D**=7.2g, $14.00

4683SO Spilanthes OG *S. oleracea* MOFGA ①
A=0.02g, $1.50 **B**=0.08g, $3.50 **C**=0.32g, $8.50 **D**=0.96g, $22.00

4692BO Blue Vervain OG *Verbena hastata* WA ①
A=0.1g, $1.40 **B**=0.4g, $3.00 **C**=4g, $14.00 **D**=12g, $32.00

ANNUAL FLOWERS

5013EO Elephant Head Amaranth OG *A. gangeticus* OT ①
A=0.1g, $1.30 **B**=0.3g, $2.60 **C**=1.2g, $6.00 **D**=6g, $20.00

5014HO Hopi Red Dye Amaranth OG *A. c.* (46 days) Stellar NOP, MOFGA ①
A=1/16oz, $1.20 **B**=1/8oz, $2.20 **C**=1/2oz, $5.00 **D**=1oz, $8.50 **E**=4oz, $30.00

Calendula *C. officinalis*

5079FO Flashback OG OT ①
A=1g, $1.60 **B**=4g, $3.50 **C**=12g, $8.00 **D**=48g, $24.00

5081KO Kablouna Mix OG ICS, OT ①
A=1g, $1.10 **B**=4g, $2.80 **C**=12g, $6.50 **D**=1oz, $11.00

5083MO Maya Orange OG AGRIOR ③
A=1g, $1.50 **B**=4g, $3.80 **C**=12g, $9.00 **D**=48g, $25.00

5087RO Resina OG ICS, OT ①②
A=1g, $1.30 **B**=3g, $3.50 **C**=9g, $8.00 **D**=27g, $18.00

5088LO Solar Flashback OG OT ①
A=1g, $1.60 **B**=4g, $3.50 **C**=12g, $8.00 **D**=48g, $25.00

5089ZO Zeolights OG OT ①
A=1g, $1.50 **B**=4g, $3.50 **C**=12g, $8.00 **D**=48g, $25.00

5176KO Kiss-Me-over-the-Garden-Gate OG *Polygonum orientale* MOFGA ①
A=1g, $1.20 **B**=3g, $3.00 **C**=12g, $7.50

5236TO Tashkent Marigold OG *Tagetes patula* **BACK!** Stellar NOP ①
A=1g, $1.30 **B**=3g, $3.40 **C**=9g, $7.50

5275KO Kniola's Purple Morning Glory OG *Ipomoea purpurea* MOFGA ①
A=0.25g, $2.30 **B**=1g, $7.50

5289JO Jewel Mix Nasturtium OG *Tropaeolum majus* CCOF ③
A=4g, $1.40 **B**=16g, $5.00 **C**=64g, $18.00 **D**=1lb, $60.00

Poppy *Papaver* spp.

5318EO Elka OG MOFGA ①
A=0.1g, $1.20 **B**=0.3g, $3.00 **C**=1.2g, $6.00 **D**=6g, $12.00

5320ZO Ziar Breadseed OG MOFGA ①
A=0.1g, $1.20 **B**=0.3g, $3.00 **C**=1.2g, $6.00 **D**=6g, $12.00

5324CO Carnation Rose OG OT ①
A=0.2g, $1.20 **B**=1g, $3.00 **C**=7g, $6.00

5330QO Drama Queen OG *Members-only special.* **NEW!** MOFGA ①
A=0.2g, $1.40

5331FO Flemish OG WA ①
A=0.2g, $1.10 **B**=1g, $2.50 **C**=5g, $5.50

5332RO Fluffy Ruffles OG MOFGA ①
A=0.2g, $1.10 **B**=1g, $2.50 **C**=5g, $5.50

5334LO Large Lavender OG MOFGA ①
A=0.2g, $1.10 **B**=1g, $2.80 **C**=4g, $6.00

Sunflower *Helianthus annuus*

5400AO Autumn Beauty Mix OG CCOF ③
A=1g, $1.00 **B**=4g, $2.40 **C**=28g, $6.00 **D**=1lb, $40.00

5405LO Lemon Queen OG CCOF ③
A=1g, $1.00 **B**=5g, $2.50 **C**=20g, $5.50 **D**=1lb, $45.00

5421SO Selma Suns OG OT, MOFGA ①
A=1g, $1.10 **B**=3g, $2.50 **C**=12g, $6.00 **D**=60g, $22.00

5433TO Tiger's Eye OG AGRIOR ③
A=1g, $1.10 **B**=4g, $3.00 **C**=20g, $8.00 **D**=100g, $30.00

5506HO Hopi Dye OG OT ①
A=1g, $1.10 **B**=4g, $3.20 **C**=20g, $12.00 **D**=100g, $40.00

5441AO April in Paris Sweet Pea OG *Lathyrus odoratus* **NEW!** OT ①
A=2g, $1.20 **B**=8g, $2.80

EVERLASTINGS

5774JO Job's Tears OG *Coix lacryma-jobi* MOFGA ①
A=2g, $1.10 **B**=6g, $2.80 **C**=24g, $9.00

5884AO Sweet Annie OG *Artemisia annua* WA ①
A=0.2g, $1.20 **B**=0.6g, $3.00 **C**=4.8g, $7.00 **D**=24g, $30.00

GRASSES & GRAINS

5962TO Terra Hulless Oats OG *Avena nuda* ICS/FVO ①
A=7g, $1.20 **B**=28g, $4.00 **C**=112g, $12.00 **D**=448g, $30.00

5963SO Northern Sea Oats OG *Chasmanthium latifolium* AGRIOR ③
A=0.2g, $1.20 **B**=1g, $4.00 **C**=4g, $14.00

5970RO Duborskian Rice OG *Oryza sativa* **NEW!** MOFGA ①
A=1g, $1.60 **B**=4g, $5.00 **C**=28g, $25.00 **D**=112g, $90.00

5995UO Utrecht Blue Wheat OG *T. durum* **BACK!** Stellar NOP ①
A=4g, $1.20 **B**=20g, $4.00 **C**=100g, $12.00

Variety Descriptions by CR Lawn - As indicated, some selections are more suitable for home gardeners than commercial growers. Farming and gardening are more an art than science. Microclimate, soil type and cultural practices significantly affect performance. Success in our trials is not a guarantee of success in your plot. We advise market growers to trial unfamiliar varieties on a small scale before fully committing.

As a guide to growers we've included information about disease tolerance and resistance provided by our suppliers. We are not plant pathologists and cannot guarantee that tolerant or resistant cultivars will never be harmed. Actual performance in the field depends on climate, weather and cultural practices which we cannot control. The absence of information on the older varieties does not mean they will keel over at the first sign of stress. While conscious breeding for disease tolerance/resistance began relatively recently, time-honored heirloom cultivars have proven adapted to a variety of conditions. Following are abbreviations which appear after some variety descriptions. A number after the abbreviation indicates which race of pathogen.

ALS	Angular Leaf Spot	N	Nematodes
ALTS	Alternaria Leaf Spot	NCLB	Northern Corn Leaf Blight
ANTH	Anthracnose	NY 15	NY 15 Mosaic Virus
ASC	Alternaria Stem Canker	P	Pythium
BL	Black Leg	PEMV	Pea Enation Mosaic Virus
BLS	Bacterial Leaf Spot	PLR	Pea Leaf Roll
BR	Black Rot	PM	Powdery Mildew
BS	Bacterial Speck	PR	Pink Rot
BSR	Bacterial Soft Rot	PRSV	Papaya Ring Spot Virus
BW	Bacterial Wilt	R	Rust
CBMV	Common Bean Mosaic Virus	SC	Sclerotinia
CLS	Cercospora Leaf Spot	SCLB	Southern Corn Leaf Blight
CMV	Cucumber Mosaic Virus	SEPT	Septoria Leaf Spot
CTV	Curly Top Virus	SM	Smut
DM	Downy Mildew	ST	Stewart's Wilt
EB	Early Blight	TB	Tipburn
F	Fusarium	TMV	Tobacco Mosaic Virus
FY	Fusarium Yellows	V	Verticillium
GLS	Grey Leaf Spot	W	Common Wilt race 1
GSB	Gummy Stem Blight	WMV	Watermelon Mosaic Virus
LB	Late Blight	X	Xanthemonas
LMV	Lettuce Mosaic Virus	Y	Yellows
LS	Leaf Spot	ZYMV	Zucchini Yellows Mosaic Virus
MDMV	Maize Dwarf Mosaic Virus		

OG after cultivar name = entire lot is certified-organic seed. See page 12 for a key to abbreviations of certifying agencies and for more information about the OG and ECO designations.

ECO after cultivar name = entire lot is sustainably grown seed.

BD after cultivar name = entire lot is biodynamically grown seed.

PVP = Plant Variety Protected. Unauthorized propagation of the seed is prohibited. The use of PVP in the catalog is for informational purposes only and in no way constitutes an endorsement by Fedco of plant patenting.

AAS = All-America Selection.

❄ indicates cold-hardy through at least part of the Maine winter. See list on page 57 for more information.

☙ = a variety introduced by Fedco followed by the year first offered.

Supplier Codes - We include supplier codes for each variety. Varieties with more than one supplier may have two or more codes. We code according to our best information at press time. When seed is short we must sometimes change suppliers later in the season. With notable exceptions, we generally choose varieties based on their merits rather than on our supplier preferences. We do not offer genetically engineered varieties, although we purchase from corporations engaged in genetic engineering. Use the supplier codes to help you make your own choices about whom you are supporting and which varieties are best for your garden or farm. Codes are as follows:

① Small seed farmers including Fedco staff.
② Family-owned companies or cooperatives, domestic and foreign.
③ Domestic and foreign corporations not part of a larger conglomerate.
④ Multinationals not to our knowledge engaged in genetic engineering.
⑤ Multinationals who are engaged in genetic engineering.

Prices - Sizes and prices are at the end of each variety description. For larger quantities than listed see instructions for bulk orders of seed on p. 3.

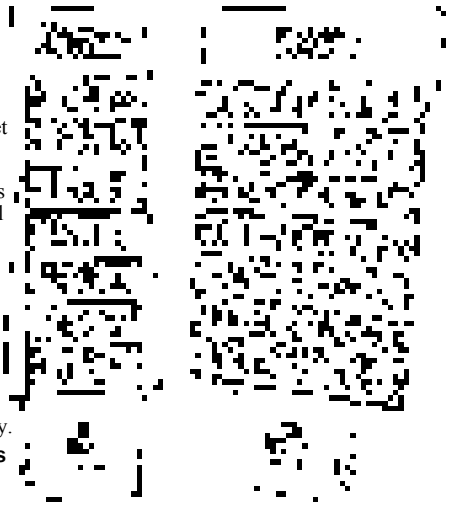
Vegetable Planting Guide - See page 75.

Seed Counts - For general information for each crop see the Vegetable Planting Guide on page 75 or the headers for most vegetables.

Optimal Germination Guide - Sowing seeds at sub-optimal temperatures is the most common cause of failure. We include information in some headers about ideal germination temperatures, taken and extrapolated from a series of tables in *Knott's Handbook for Vegetable Growers* ISBN 0-471-73828X and from *The New Seed-Starters Handbook* by Nancy Bubel, ISBN 0-87857-752-1.

"Thank you for keeping the descriptions of your seeds honest."
—Grace McIntosh, Oakwood, OH
"It is so gratifying to have varietal issues discussed right in the seed description, instead of trying to read between the lines."
—Barbara Bockbrader, Alford, MA.

Fedco's Packet Rack Program for Retailers



Portable cardboard packet racks suitable for all our A-size packets. The top slots hold about 4 packets of peas, beans or corn; all slots hold at least 10 packets of the other crops. Dimensions for the 28-slot rack are 14" deep, 20" wide, 62" high. For the 56-slot rack 14x30x64". Each collection has 28 or 56 varieties and either 5 or 10 packets of each variety.

101 Popular Favorites 28 best-selling varieties. 20 vegetables, 4 herbs, 4 flowers, 6 organic.
A=5 packets of each with rack, $170.00
B=10 packets of each with rack, $316.00
C=5 packets of each without rack, $145.00
D=10 packets of each without rack, $290.00

102 Popular Favorites 56 best-selling varieties. 42 vegetables, 7 herbs, 7 flowers, 14 organic.
A=5 packets of each with rack, $360.00
B=10 packets of each with rack, $695.00
C=5 packets of each without rack, $335.00
D=10 packets of each without rack, $670.00

103 All Certified Organic 28 best-selling organic varieties. 23 vegetables, 2 herbs, 3 flowers.
A=5 packets of each with rack, $208.00
B=10 packets of each with rack, $391.00
C=5 packets of each without rack, $183.00
D=10 packets of each without rack, $366.00

104 All Certified Organic 56 best-selling organic varieties. 41 vegetables, 7 herbs, 8 flowers.
A=5 packets of each with rack, $403.00
B=10 packets of each with rack, $782.00
C=5 packets of each without rack, $378.00
D=10 packets of each without rack, $757.00

105 Heirloom Collection 28 heirloom varieties. 24 vegetables, 1 herb, 3 flowers, 12 organic.
A=5 packets of each with rack, $189.00
B=10 packets of each with rack, $353.00
C=5 packets of each without rack, $164.00
D=10 packets of each without rack, $328.00

106 Heirloom Collection 56 heirloom varieties. 44 vegetables, 4 herbs, 8 flowers, 23 organic.
A=5 packets of each with rack, $357.00
B=10 packets of each with rack, $689.00
C=5 packets of each without rack, $332.00
D=10 packets of each without rack, $664.00

Ground rules:
- **Collections qualify for all regular volume discounts**. So do re-orders provided the amount exceeds $50.
- Collections may be combined with individual packet orders to reach higher discount levels.
- Packets are our regular design. We will furnish samples on request.
- Pre-order, prepay.
- Free shipping on all orders.
- All reorders will be advanced to the front of the line for fast service.
- No returns.
- Varieties our choice; no substitutions.
- We will make substitutions if we run out of any items in the collections.
- Re-order requests will be honored until June 1.
- Retailers remove packets from racks by July 31; don't sell stale seed.
- No suggested retail. Determine the profit margin you need.
- Questions? email **seedquality@fedcoseeds.com**.

For a list of specific items in each collection, download from our website at www.fedcoseeds.com or write or call for a paper copy.

Seed Envelopes Our reclosable seed envelopes, plain white with no logo. Use them for seed saving, repacking bulk seed, or tucking away small objects. Two sizes. All volume discounts apply.

111SD Seed Envelopes 3¼ x 4¾"
A=bundle of 10, $2.25 **B**=bundle of 50, $6.00 **C**=bundle of 100, $9.00

112SE Seed Envelopes 3⅝"x 5½"
A=bundle of 10, $2.50 **B**=bundle of 50, $7.00 **C**=bundle of 100, $11.00

BEANS *Phaseolus vulgaris*

2 oz. packet sows 25 ft; 1 lb, 200 ft. Avg 180 seeds/2 oz packet. **All beans are open-pollinated.** Tender, will not survive frost. Plant 3–4 seeds/ft. in rows 24–30" apart. Pick frequently to keep beans producing, but stay out of the patch in wet weather to prevent spread of fungal diseases. White-seeded beans usually don't germinate as well as dark-seeded. Minimum germination soil temperature 60˚. Optimal range 60–80˚. Optimal temperature 77˚. Emergence takes 16 days at 59˚; only 8 days at 77˚. Produce 97% normal seedlings at 77˚, but only 47% at 86˚.

Regret we cannot ship bean seed to Idaho due to quarantine.

Note: In conditions of high nitrogen fertility some bush beans may develop vines in moist hot weather.

BUSH GREEN BEANS

Provider (50 days) Nothing provides like Provider. For highest early yields, even under adverse conditions, and rich beany taste, old reliable Provider can't be beat. Also excellent for canning. Noted for its concentrated sets of round 5–5½" pods. Anne Elder of Community Farm of Ann Arbor notes its amazing resilience: it and #**225** Royal Burgundy re-flower repeatedly after heavy pickings followed by rains. Came in one day ahead of Contender for earliest in our observation plot. Best-selling variety in our entire catalog in 2011, with 7,000 packages using nearly 5,000 lb. Released by USDA in 1965. Purple seed. Resistant to CBMV, NY 15, PM, DM.

204PR Provider ③
A=2oz, $1.30 **B**=8oz, $3.60
C=1lb, $6.00 **D**=5lb, $20.00
E=10lb, $32.00 **K**=25lb, $75.00
L=50lb, $140.00

205PO Provider OG CCOF, ID-certified. ①③
A=2oz, $1.90 **B**=8oz, $5.50
C=1lb, $10.00 **D**=5lb, $48.00
E=10lb, $90.00 **K**=25lb, $220.00
L=50lb, $400.00

210ST Strike (53 days) Market growers will strike it rich with heavy yields of medium-green 5½" slender smooth straight round pods. Strike sets the standard for earliness, appearance, and ease of picking, and has a pleasing sweet beany taste. White seed. Resistant to NY 15 and CBMV. ③
A=2oz, $1.30 **B**=8oz, $3.60 **C**=1lb, $6.00 **D**=5lb, $20.00
E=10lb, $32.00 **K**=25lb, $75.00 **L**=50lb, $140.00

214GC Greencrop (53 days) An early flat-podded Romano type especially adapted to the North. Pods can grow up to 8" long while still retaining good quality. Bred by Albert F. Yaeger and Elwyn Meader at the University of New Hampshire. 1957 AAS. White seed. Tolerant to CBMV. ③
A=2oz, $1.30 **B**=8oz, $3.60 **C**=1lb, $6.00 **D**=5lb, $20.00
E=10lb, $32.00 **K**=25lb, $75.00 **L**=50lb, $140.00

225BO Royal Burgundy OG (55 days) Straight 5" meaty purple pods turn bright green after two minutes of blanching. Less foliage than Royalty Purple Pod. Grows well even in cold conditions. Light brown seed. Resistant to CBMV, NY 15, PM. ID-certified. ①
A=2oz, $1.90 **B**=8oz, $5.50 **C**=1lb, $10.50 **D**=5lb, $50.00
E=10lb, $90.00 **K**=25lb, $220.00 **L**=50lb, $400.00

230JD Jade (56 days) Favored by both market and home gardeners, Jade produces great yields of tasty 5–7" straight slender round dark green beans that keep coming until late in the season, long after others have quit. Known for their holding quality, the tender pods with traditional bean flavor retain rich color longer than others, both on the vine and after picking. The highest-yielding and longest (6.6" avg.) of eight varieties trialed at Highmoor Farm in Maine. Jade's strong upright bush habit holds pods above the ground, reducing curling and tip rot. PVP. Resistant to CBMV, NY15, CTV, tolerant to R. *Caution: white-seeded Jade is a fussier germinator than most other bush beans. Be sure your soil temperature is at least 60 ° and irrigate during dry spells.* ⑤
A=2oz, $2.10 **B**=8oz, $5.00 **C**=1lb, $9.00 **D**=5lb, $44.00
E=10lb, $85.00 **K**=25lb, $210.00 **L**=50lb, $400.00

238BB Bush Blue Lake 274 (57 days) Introduced in 1961 as a bush variety of the famous Blue Lake pole bean. Long considered the taste standard for home-garden bush beans. Pods average 6", fill slowly with tender plump beans. Very high yields. Not heat tolerant, but an excellent choice for fall crops in areas with very hot summers. White seed. Resistant to CBMV, NY 15. ③
A=2oz, $1.30 **B**=8oz, $3.60 **C**=1lb, $6.00
D=5lb, $20.00 **E**=10lb, $32.00 **K**=25lb, $75.00
L=50lb, $140.00

246RM Roma II (59 days) True flat bush Romano offers heavy yields of fleshy medium-green 5" pods that are slow to develop seeds. White seed. A small percentage will develop runners. Resistant to CBMV, NY15. ⑤
A=2oz, $1.80 **B**=8oz, $5.20 **C**=1lb, $9.50
D=5lb, $42.00 **E**=10lb, $80.00 **K**=25lb, $180.00
L=50lb, $340.00

BUSH HARICOTS VERTS

Haricot vert is French for green bean. This type has fancier quality than American beans and commands a premium in markets. For optimal flavor, pick pods when they are still thinner than a pencil, before they develop strings.

247MS Masai (58 days) "I wrote off *haricot verts* as a marketing gimmick, but Masai was better. I choose them above Provider for day-to-day use," says Katie Wolpert of Belington, WV. Love the quality of French filet beans, but hate to have to pick them every time you turn around? One of a new class of haricot verts that holds a long time, Masai will look good even if you neglect it for a week's vacation and will bounce back to produce for a long time if you renew your attention. Unlike classic haricot verts, Masai grows only 5" long, the slender pods juicy and crisp with a pleasing beany flavor. Although much more compact than Provider, each plant cranks out dozens of the diminutive beans. A space saver since only a few plants will suffice for a small family. ⑤
A=½oz, $1.60 **B**=2oz, $4.00 **C**=8oz, $11.00 **D**=1lb, $20.00
E=5lb, $80.00

249MO Maxibel OG (61 days) A heavy producer of uniform dark green fancy 6–8" pods of exceptional length, ramrod straightness and superb taste. For maximum tenderness and most succulent flavor pick early and often. Normal-sized bushes are not as compact as Masai. A gourmet market spe-cialty. Speckled brown seed. White flowers. ID-certified. ①
A=½oz, $1.20 **B**=2oz, $2.50
C=8oz, $6.50 **D**=1lb, $12.00
E=5lb, $55.00 **K**=10lb, $95.00

BUSH WAX BEANS

262GO Golden Rocky OG (54 days) Heirloom from France, also known as *Beurre de Rocquencourt*, noteworthy for its slender juicy pods that melt in your mouth, light and not beany. Germinates well in cool wet conditions and retains vigor even under night temperatures in the 40s and 50s. Stands out as a vigorous and consistent cropper when many others falter in excessive rainfall and insufficient heat. ID-certified. ①
A=2oz, $1.90 **B**=8oz, $5.50 **C**=1lb, $10.00
D=5lb, $48.00 **E**=10lb, $90.00 **K**=25lb, $220.00
L=50lb, $400.00

265NO Indy Gold OG (54 days) Tender yellow pods with attractive green tips average 5". Heavy-yielding large plants won't be slowed by any caution flags. A good performer even in cold wet summers with adaptability comparable to Provider. Beans, held high off the ground, are easy to pick and hold well. Also makes a delicious shell bean. White-seeded. Tolerates CBMV. In the yellow bean race, Indy waxes the competition. Although the trade dropped Indy Gold, we are licensed by Syngenta to maintain our own organic production. We are overstocked. *On special; price reduced!* PVP. ID-certified. ①
A=2oz, $1.80 **B**=8oz, $4.50 **C**=1lb, $8.00 **D**=5lb, $36.00
E=10lb, $70.00 **K**=25lb, $160.00 **L**=50lb, $300.00

270GB Golden Butterwax (56 days) A white-seeded wax bean impressive for its rich yellow color and straight pods. We rate Butterwax as less juicy than Golden Rocky or Rocdor, but beanier. Resistant to CBMV, NY15, tolerant to ozone damage. ③
A=2oz, $1.30 **B**=8oz, $3.60 **C**=1lb, $6.00 **D**=5lb, $18.00
E=10lb, $30.00 **K**=25lb, $70.00 **L**=50lb, $130.00

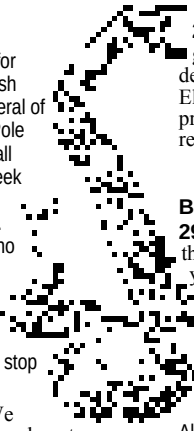
277DO Dragon Langerie OG (57 days) Also known as Dragon's Tongue. Tasty attractive 19th-century heirloom hails from the Netherlands. Its compact stocky bushes bear abundant purple violet flowers followed by flat 6" creamy yellow pods mottled with purple tiger stripes. Sunlight helps the colors become vivid, so plant farther apart in the row than normal bean spacing so interior set develops good color. Crisp, stringless and amazingly juicy when eaten fresh. Cook or market promptly after picking; turns rubbery and loses snap when stored. Not recommended for freezing. Loses purple coloration in cooking. Seed purplish brown with blue stripes. ID-certified. ①
A=2oz, $1.90
B=8oz, $5.50
C=1lb, $10.00
D=5lb, $48.00
E=10lb, $90.00
K=25lb, $220.00

"Love your selection and prices!"
—Dawn Devereaux, Zeeland, MI

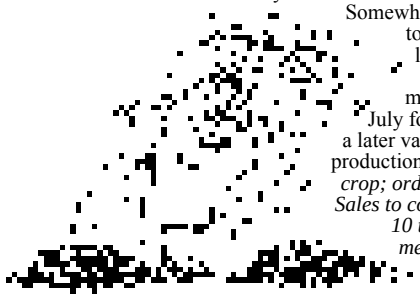
All catalog prices are not created equal: unlike most seed companies, we do not charge shipping on orders over $30. When comparing prices also be sure to factor in our generous discounts.

POLE BEANS

2 oz. packet sows 20 poles, 6 per pole. We've used four-legged tipis for staking for years. Gloria Seigars of New Sweden, ME, uses tall limber ash saplings that can be bent double without breaking. "Wired together, several of them make a nifty arbor and grand entrance to the vegetable garden." Pole beans and #**318** Scarlet Runner climb them with enthusiasm. Will Bonsall suggests letting them climb sunflower stalks (give the sunflowers a 2-week head start). Tom Stearns uses a long sturdy fence (the most space-efficient way). If you're saving seed, a good yield is 1 lb. per pole. One customer says, "Many people—even gardeners and cooks—have no idea how much better tasting pole beans are. Most bush beans are cardboard by comparison." All pole beans have strings that won't be annoying if you pick early and often. Frequent clean picking will keep your vines vigorous and productive. Pick and compost those fat ones hanging low that got away; if you leave them on the vine your plants will stop producing, satisfied that they've fulfilled their reproductive mission.



280NO Northeaster OG (55 days) Also known as Kwintus. We can never grow enough seed for this superior pole bean that ripens almost two weeks earlier than Kentucky Wonder. Flavor improves with blanching. Somewhat flattened pods slow to get tough even when big. Normal length is 7–8". Loses vitality after several pickings, so make a succession planting in July for September harvest or sow a later variety if you wish continuous production till frost. White seed. *Short crop; order early.* MOFGA-certified. *Sales to coop members only. See page 10 to join Fedco as a consumer member.* ①



A=½oz, $1.60
B=2oz, $4.00

282FO Fortex OG (60 days) A very optimistic late August report from our seed grower has us hoping to end years of disappointments. Fortex is a hard seed crop to produce, so any amount we can offer will be snapped up early. We can't say it any better than Louise Giovanella of Panton, VT, who exclaimed, "I have trialed many kinds of pole beans over the years…and I can say unequivocally that Fortex is by far the best…They begin producing early in the season…and continue…outstanding…long after the others have quit, going right into fall…the flavor and texture are supreme…a wonderful nutty taste even raw and they continue to be tender…even if the beans are very mature." Although the medium green pods may be harvested at 6–7" for gourmet filet beans, they retain good quality and sweetness without strings even at 10", and Giovanella harvested some as long as 14". Vines stand up to repeated pickings, achieving impressive yields. Expensive walnut-brown seed is worth every penny. OEFFA, OT-certified. ①
A=½oz, $1.60 **B**=2oz, $4.00 **C**=8oz, $9.50

283RM German (64 days) Sam Birch, who grows hundreds of varieties each year, knows his beans and really likes this one. Not the black-seeded German bean listed in Seed Savers, instead, these white seeds originated with Sam's neighbor Phil Wentzel and are surprisingly small, considering that they grow prolific wide flat pods that can get a foot long. Even at that length the beans are still tender and can be enjoyed as green beans or allowed to mature into shellies. These vigorous climbers dwarf Sam by a full two feet. Finally **BACK!** at last with a full seed crop. ☙2007 and last offered that year. ①
A=½oz, $1.60 **B**=2oz, $4.00 **C**=8oz, $11.00 **D**=1lb, $20.00
E=5lb, $80.00

284GB Gold of Bacau (65 days) This tender white-flowered Romano-type wax bean from Bacau, Romania, was extremely productive and yummy in my observation plot. The wide pods grew 6–10" gaining color as they sized up, and remained sweet and stringless even when the seeds began to form. Jan Sonstrom of Spofford, NH, says "these are sweet, beany, tender and just terrific. Plus they're easy to pick since the yellow stands out from the green of the leaves…Delicious!" Not suitable for canning. ②
A=½oz, $1.60 **B**=2oz, $4.00 **C**=8oz, $11.00 **D**=1lb, $20.00
E=5lb, $95.00

285KW Kentucky Wonder (68 days) Also known as Old Homestead. "Of all the climbing kinds, we do not believe there is a better one than Kentucky Wonder; it is an old variety with solid meaty pods, 7–9" long...and when cooked no bean is better. It is enormously productive, the pods hanging in great clusters from top to bottom of the pole." Still as true today as in 1921 when Stark Bros. printed it. Wonder, a favorite since the mid-1800s, was given its present name by the eminent Marblehead, MA, seedsman James J.H. Gregory in 1877. The nutty flavor makes them outstanding for freezing. Pick regularly to maintain quality and production. Pods flatten as beans mature. Not good when fat. Brown seeds. ③
A=2oz, $1.40 **B**=8oz, $4.00 **C**=1lb, $7.00 **D**=5lb, $22.00
E=10lb, $35.00 **K**=25lb, $80.00 **L**=50lb, $150.00

292RS Rattlesnake (70 days) "I've always been a Kentucky Wonder girl but got Rattlesnake for a substitute and am I ever glad. These beans are delicious fresh and frozen—beautiful, too," avers Catherine Hall of Ellsworth, ME. Called Preacher Bean in parts of the South, Rattlesnake produces a good harvest of round 6–7" pods with purple streakings said to resemble the markings of a rattlesnake. Tan seed with dark stripes. ③
A=2oz, $1.40 **B**=8oz, $4.00 **C**=1lb, $7.00 **D**=5lb, $22.00
E=10lb, $35.00 **K**=25lb, $80.00

Blue Coco ECO *Not available in 2012*

297MP Multicolored Pole Bean Mix (60-72 days) Multiculturalism in the bean patch. Pick a pole of polychromatic pods! We combine green, yellow, purple and striped varieties of staggered maturity into one packet. Great for those wishing to try all our varieties but with room for only one or two poles, and for CSAs who want to put a whole rainbow into each box. Varieties, our choice, will vary from year to year according to availability.
A=½oz, $1.50 **B**=2oz, $3.50 **C**=8oz, $9.00 **D**=1lb, $16.00

FAVA BEANS *Vicia faba*

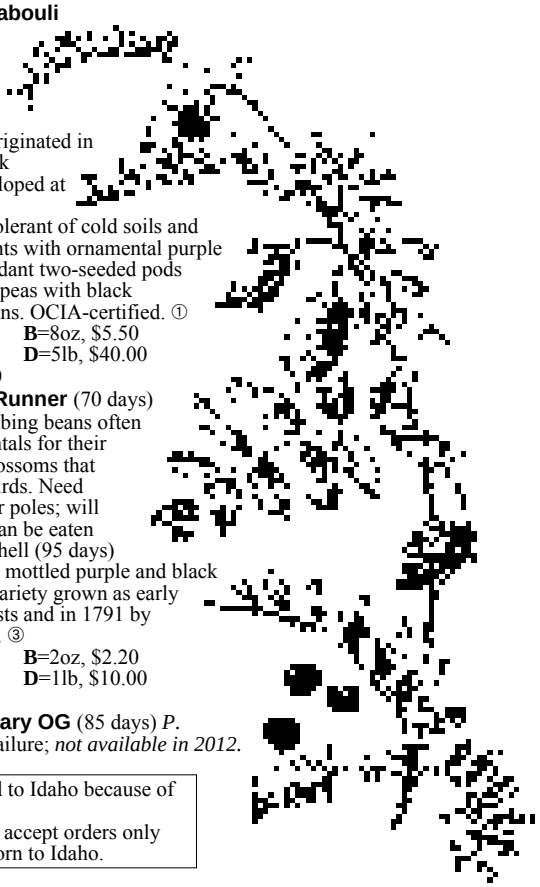
Also called broad beans and horse beans. Mainstays in many cultures from ancient Rome to modern-day Mexico, Brazil and India. Rich in fiber and iron and highest of all beans in protein, they adapt well to our cool northeast climate. Favas, unlike other beans, should be planted as soon as the ground can be worked. They tolerate frost, but do not thrive in hot weather. Sow the large seeds 3–4" apart. Harvest when the light green beans in the 6" glossy pods reach the green shell stage. Melanie Edwards of Eastport, ME, advises "If you cook them fresh-picked they need to be parboiled only 1–2 minutes in lightly salted water. If they have been in the refrigerator a while, give them a minute more. Utterly delicious when a small bit of the cooking water is eaten with the bean. Gently break open the seed casing with your front teeth and squeeze out the inside. Shelling your own as you eat them is similar to the difference between eating corn on the cob and whole kernel corn. No comparison."

298WI Windsor (75 days) Bush type. The classic heirloom variety, listed by Fearing Burr in *Field and Vegetable Gardens of America* in 1863. Brown seed. ③
A=2oz, $1.40 **B**=8oz, $4.00 **C**=1lb, $7.00 **D**=5lb, $25.00
E=10lb, $40.00 **K**=25lb, $75.00 **L**=50lb, $145.00

299FO Gigante OG (90 days) Bush type. The plants may look unprepossessing ("wimpy" says Nikos), but they sure produced impressively for Clayton Carter in his trial at Fail Better Farm, besting all others. The name refers to its 7" pod size. The stock originated from Italy where this variety is widely cultivated for its excellent fresh market production. **NEW!** OT-certified. ①
A=2oz, $2.40 **B**=8oz, $9.00 **C**=1lb, $15.00 **D**=5lb, $60.00

MISCELLANEOUS BEANS

307KO Black Kabouli Garbanzo OG (115 days) *Cicer arietinum* A cool-weather crop cultured like peas, garbanzos originated in Afghanistan. Black Kabouli was developed at Washington State University to be tolerant of cold soils and light frosts. 2' plants with ornamental purple flowers bear abundant two-seeded pods resembling beach peas with black medium-sized beans. OCIA-certified. ①
A=2oz, $1.80 **B**=8oz, $5.50
C=1lb, $9.50 **D**=5lb, $40.00
E=10lb, $70.00



318SR Scarlet Runner (70 days) *P. coccineus* Climbing beans often grown as ornamentals for their brilliant scarlet blossoms that attract hummingbirds. Need trellises, fences, or poles; will grow to 10–12'. Can be eaten either as snap or shell (95 days) beans. Beautifully mottled purple and black seeds. Heirloom variety grown as early as 1750 by colonists and in 1791 by Thomas Jefferson. ③
A=1oz, $1.40 **B**=2oz, $2.20
C=8oz, $6.00 **D**=1lb, $10.00
E=5lb, $40.00

Mitla Black Tepary OG (85 days) *P. acutifolius* Crop failure; *not available in 2012.*

Regret we cannot ship bean seed to Idaho because of quarantine.
Because of high state fees we accept orders only for A-size packets of peas and corn to Idaho.

322RN Red Noodle Yard Long (90 days) *Vigna sesquipedalis* A pole or two of these, with their long pencil-thin 14–18" cascading burgundy pods makes a stunning garden entrance that draws people in and excites curious inquiries. Not the earliest of Yard Long beans, but surely the most spectacular. An indifferent performer in chilly Central Maine, Noodle prefers the warmer day and night temperatures of hill country Massachusetts and would do even better a zone or two south. Slow to produce, first ripening for me in MA Sept. 5, but once underway, never looked back, unfazed by hurricane rains, seemingly the moister the better. Keep it picked to sustain production. An intriguing Asian specialty that is now coming into its own, with a strong unique indescribable flavor best brought out by dry-frying in a hot wok with peanut oil, garlic and tamari. Stringless and most tender when young and thin. Must be trellised. About 200 seeds/oz. ③ **NEW!**

A=1/2oz, $2.20 **B**=2oz, $8.00 **C**=4oz, $14.00 **D**=1lb, $50.00 **E**=5lb, $240.00

LIMA BEANS *Phaseolus lunatus*

Minimum soil temperature 60˚F, optimal range 70-85˚, optimal temperature 85˚, emergence takes 18 days at 68˚, only 7 days at 77˚. 80% normal seedlings at 77˚, but 88% normal at 86˚.

323JW Jackson Wonder (103 days) U.P. Hedrick in his seminal 1931 volume *The Vegetables of New York* called it "the hardiest of all bush limas, very productive." In his *100 Vegetables and Where They Came From,* William Woys Weaver highly praised Jackson Wonder for baby pods that are so tender they can be cooked like snow peas and mature beans so handsome they make a stunning bead necklace. Introduced in 1888, Atlanta farmer Thomas Jackson's drought-tolerant variety created a sensation for its productivity, even though it stands only 18" tall. Wonder features about 3 seeds per curved pod, grey in the shell stage and drying to buff with lovely purple and black mottling, as succulent as they are decorative. Its sweet-smelling white flowers attract butterflies. ③

A=2oz, $1.40 **B**=8oz, $4.00 **C**=1lb, $7.00 **D**=5lb, $20.00 **E**=10lb, $35.00

325KG King of the Garden Pole (106 days) Also known as Henderson's Leviathan. For those with a season long enough to grow pole limas. Developed from a cross between Large White and Dreer by Frank S. Platt in 1883. Platt selected five- and six-seeded Large White pods so that King's long 8" pods dependably produce at least 4 large creamy white seeds of splendid quality over an extended harvest period. Gregory called them the standard late pole lima and advised in his 1917 catalog that the plants are extremely vigorous so that "no more than two should be allowed to grow to a pole." Indeed, the vines can grow 10' high on fertile ground! *Caution: Not adapted to northern areas.* ③

A=2oz, $1.50 **B**=8oz, $4.50 **C**=1lb, $7.50 **D**=5lb, $28.00 **E**=10lb, $45.00

SHELL AND DRY BEANS *P. vulgaris*

2 oz packet sows 25 ft, 1 lb. 200 ft. All bush beans except where noted. In conditions of high nitrogen fertility some bush beans may develop vines in moist hot weather. Allow beans to dry on the vine until pressing them with your fingernail leaves no indentation. If heavy rains threaten just before maturity, pull plants by the roots and hang them in a dry place to finish or pick pods and finish drying indoors. With all the rain in August and September, 2011 was a difficult year to dry down beans. Researchers at Colorado State University found that consuming dry beans reduces the risk of breast cancer.

326DW Taylor Dwarf Horticultural (68 days shell) Also known as Speckled Bays, this pre-1800 heirloom bush shell bean produces cream-colored pods early. Pods are ready to shell when carmine-red splashes appear. Shell right after picking, boil until tender (30–45 minutes) and mix with olive oil, chopped garlic and parsley for a late summer treat. Buff seed with red stripes. ③

A=2oz, $1.40 **B**=8oz, $3.60 **C**=1lb, $6.50 **D**=5lb, $20.00 **E**=10lb, $35.00 **K**=25lb, $75.00 **L**=50lb, $130.00

328VC Vermont Cranberry (70 days shell, 95 days dry) A New England tradition since before 1800. Pods contain 5 to 6 speckled cranberry-colored shell beans. Reliable, hardy and easy to shell. Seed grown in Maine. Occasional tendency to viney habit. ①

A=2oz, $1.60 **B**=8oz, $5.00 **C**=1lb, $8.00 **D**=5lb, $32.00 **E**=10lb, $55.00

331CO Silver Cloud Cannellini OG (70 days shell, 90 days dry) Our trialer says Silver Cloud compares to a regular cannellini only in that they both have white seeds. Green with bright pink streaking, Silver Cloud's short fat 5–6" pods contain five plump seeds instead of the eight skinny ones found in most cannellini pods. The overall appearance is more like that of a #**326** Taylor Horticultural bean than of a typical white kidney bean. These make absolutely superb shell beans and are amazingly early, ripening as much as two weeks sooner than others in the cannellini pack. No wonder Nikos and Donna Dyrek lobbied so fervently for their inclusion. ID-certified. ① **NEW!**

A=2oz, $1.90 **B**=8oz, $6.00 **C**=1lb, $10.00

332CN Cannellini (80 days shell, 100 days dry) Also known as Cannelone, predates 1900. 1/2" white kidney shell bean. Our staff taste test drew such comments as "really scrumptious—where's the tortillas?" "creamy delicious," and "my favorite." The mild-tasting beans become tender when cooked, perfect for minestrone and other soups or stews. Good performer in cool weather. ①

A=2oz, $1.60 **B**=8oz, $5.00 **C**=1lb, $8.00 **D**=5lb, $32.00 **E**=10lb, $55.00

Limelight OG (60 days shell, 85 days dry) Crop failure; *not available this year.*

334BC Black Coco (60 days shell, 85 days dry) A triple treat bean that is a joy to grow because it is so easy. 2' plants set abundant 5" round pods of plump shiny black seeds that resist shattering in the garden, yet are easy to shell. Coco can be harvested as a green bean or ten days later as a good shell bean, but really comes into its own as a refried or soup bean. Cooks quickly with a delicious aroma that promises a hearty robust soup. **BACK!** ③

A=2oz, $1.50 **B**=8oz, $4.50 **C**=1lb, $7.50 **D**=5lb, $28.00 **E**=10lb, $45.00 **K**=25lb, $95.00

335TO Tiger Eye OG (65 days shell, 85 days dry) Also called *Pepa de Zapallo*, originally from Argentina and Chile and known to me from the Abundant Life Seed Foundation collection. Among the most beautiful of all beans, bright golden ochre with maroon swirls. That would be reason enough to grow them, but they also make superb fresh shell and delicious baked beans with rich full-bodied flavor. Wide 4" pods fill with large flattened kidney-shaped seeds mostly white at the shell stage but taking on more yellow as they dry. Bush plants grow 2' with a slight tendency to vine. ID-certified. ①

A=2oz, $1.90 **B**=8oz, $6.00 **C**=1lb, $11.00 **D**=5lb, $48.00 **E**=10lb, $90.00

336KE King of the Early (85 days) Beautiful mottled red baking bean. Seed propagated from a sample sent to us years ago by seed-saving customer Linwood Ware. King's ability to ripen early, its capacity to swell enormously when soaked, its utter dependability through hot summers and cool, and its robust flavor won our hearts. We've found King easy to grow and heavy yielding year after year. Seed grown in Maine. ①

A=2oz, $1.50 **B**=8oz, $4.50 **C**=1lb, $7.00 **D**=5lb, $30.00 **E**=10lb, $50.00 **K**=25lb, $100.00

Maine Sunset OG (85 days) Regret crop failure; off-types in the stock. *Not available in 2012.*

338MF Marfax (86 days) Heirloom resembling Swedish Brown Bean, but earlier and higher yielding. Richly flavored brown baking bean very well adapted to our cool climate. Golden-tan seed produced in Maine. ①

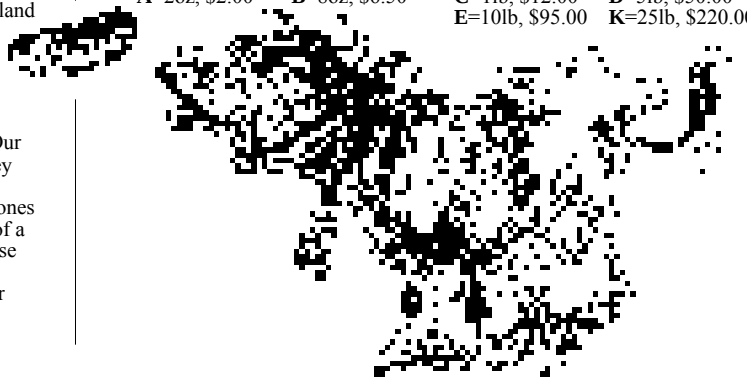
A=2oz, $1.50 **B**=8oz, $4.50 **C**=1lb, $7.00 **D**=5lb, $30.00 **E**=10lb, $55.00 **K**=25lb, $100.00 **L**=50lb, $180.00

340HO Hutterite OG (88 days) Unclear whether this is really a bean of Hutterite cultural heritage. Instead it may be a Russian selection of the China Yellow bean that has been grown by Americans and Canadians since the 1820s. However, the Hutterites, a communal Anabaptist sect persecuted in Austria, have been credited, rightly or wrongly, with bringing these delicious soup beans with them when they escaped to Canada in the 1750s. The greenish-tan plump beans with a charcoal ring around the hilum cook into delicious creamy chowder in a little under an hour. 2–3' bushes are good yielders. Listed on Slow Food's Ark of Taste. MOFGA-certified. ①

A=1/2oz, $1.30 **B**=2oz, $2.50 **C**=8oz, $8.00 **D**=1lb, $15.00 **E**=5lb, $50.00 **K**=10lb, $95.00

344JO Jacob's Cattle OG (88 days) Popular New England heirloom may have originated with Native Americans in the Southwest. Derives its name from the biblical story of Jacob and the spotted cattle. Its dark red speckles on white background are said to look like the cattle's markings. If harvested earlier the kidney-shaped beans make superb shellies. MOFGA-certified. ①

A=2oz, $2.00 **B**=8oz, $6.50 **C**=1lb, $12.00 **D**=5lb, $50.00 **E**=10lb, $95.00 **K**=25lb, $220.00



Shell and Dry Beans continued

350SD Soldier (89 days) Balance the budget by bringing our Soldiers home to their own gardens! Unlike our soldiers in faraway wars, these Soldiers have a clear, winnable mission within a defined timetable: to reproduce themselves for our mutual benefit! Large drought-tolerant white kidney beans with red-brown soldier-like figures on the eyes. A New England favorite for generations. Seed grown in Maine. ①
A=2oz, $1.50 **B**=8oz, $4.50 **C**=1lb, $7.00 **D**=5lb, $30.00
E=10lb, $50.00 **K**=25lb, $95.00 **L**=50lb, $180.00

353KE Kenearly (89 days) Yellow Eye is one of the signature varieties of Maine bean hole suppers. Kenearly, a selection of Yellow Eye, was developed at the Kentville, Nova Scotia, research station. Very similar to the Maine Yellow Eye strain we formerly sold, but with slightly larger eye and more uniform maturity. Plump oval medium-sized beans, cream with yellow eye. Seed grown in Maine. ①
A=2oz, $1.50 **B**=8oz, $4.50 **C**=1lb, $7.00
D=5lb, $30.00 **E**=10lb, $50.00

Aunt Jean's Pole ECO (90 days) The victim of a terrible year to try to grow dry bean seed. Crop failure; *not available this year.*

356CP Calypso (90 days) Also called Orca or Yin-Yang bean. A dramatic find at the Common Ground Country Fair Exhibition Hall where its stark markings uncannily similar to the Chinese symbol attracted our immediate attention. This black and white dry bean even includes a contrasting dot. Not as heavy a yielder as King of the Early, Calypso dependably produces 4–5 beans per pod, with a texture similar to Yellow Eye. Doubles in size when cooked. Seed grown in Maine. ①
A=2oz, $1.60 **B**=8oz, $5.00
C=1lb, $8.00 **D**=5lb, $32.00
E=10lb, $55.00

366PO Agate Pinto OG (92 days) Mostly bush pinto with medium-sized mottled beans of rich spicy flavor. Hailed as a breakthrough when introduced in 1982 by Rogers Bros. who dwarfed most of the typical vininess out of pintos and made Agate easy to harvest. An occasional plant (less than 5%) will still send out sprawling runners. Use of excessive nitrogen will cause additional vining. Quick cooking, the essential bean in Mexican cuisine. ICS-certified. ①
A=2oz, $2.10 **B**=8oz, $8.00
C=1lb, $14.00 **D**=5lb, $65.00
E=10lb, $120.00

"I especially love the artwork and the absence of gloss…I'm thrilled that it's up to my own imaginings to envision the upcoming garden and there's not another impossible, airbrushed, color-enhanced, photo-shopped model to compare myself with."
—Barb LePak, Troy, MT

371CO True Red Cranberry Pole OG (102 days) The return of this rare heirloom after a four-year hiatus from our catalog is exciting news for me, not least because of its Maine heritage. This is one of the most difficult seed crops for us to produce, being slow-growing and finicky, especially in cool moist seasons. Nevertheless, it is well worth the effort as it is one of the best baking beans. Inspired by a description of "Red Cranberry" in a 1700s gardening encyclopedia, legendary bean collector John Withee, after an 11-year search, finally obtained it from a Mr. Taylor of Steep Falls, ME. The plump round maroon seeds without streaking look like Thanksgiving cranberries, unlike the speckled oval bush cranberry types. One of our oldest varieties, probably Native American, True Red Cranberry is listed on Slow Foods' Ark of Taste. Won plaudits for its rich full-bodied flavor at our staff taste test. Soak seeds for 24 hours to aid germination. Short crop; *order early!* **BACK!** MOFGA-certified. ①
A=1oz, $1.80 **B**=2oz, $3.20 **C**=8oz, $10.00

376RK Red Kidney (102 days) An early-maturing light red kidney bean developed at Cornell University. A favorite for chili and minestrone. Large beans mature at least a week earlier than similar types. Seed grown in Maine. ①
A=2oz, $1.50 **B**=8oz, $4.50 **C**=1lb, $7.00 **D**=5lb, $30.00
E=10lb, $50.00 **K**=25lb, $95.00 **L**=50lb, $180.00

384BT Midnight Black Turtle (102 days) The original Black Turtle was offered in 1832 by Grant M. Thorburn, one of the first U.S. seedsmen. This strain, an improved upright bush version of the heirloom, was more recently developed by Cornell University. Small black beans with rich spicy flavor popular for soup. Seed grown in Maine. ①
A=2oz, $1.60 **B**=8oz, $5.00 **C**=1lb, $8.00 **D**=5lb, $32.00
E=10lb, $55.00 **K**=25lb, $125.00

Saturday Night Special OG (105 days) No seed grower; *not available in 2012.*

SOYBEANS *Glycine max*

Half oz pkt sows 10 ft, 1 lb sows 320 ft, avg 80 seeds/oz. Used in China more than 2,200 years ago, then introduced into Japan. The Japanese call them *edamame* (eh-dah-*mah*-may), meaning "bears on branches," and boil and salt them like beer nuts. Encouraged by its recent popularity surge, breeders are selecting for larger pods with sweeter beans. *Edamame* are day-length sensitive. Sow around the same time as sweet corn and harvest when most of the pods have expanded but are still green without yellowing. For best flavor harvest in the evening. Boil the pods for 5 minutes, chill quickly for easy shelling. Refrigerate beans that you don't consume immediately. *Edamame* are rich in vitamins A, C and E, calcium, phosphorus, protein and dietary fiber. Fresh-market growers often cut off plants near the base, remove the leaves and bunch into 1 lb units, eliminating their need to pick each pod individually. Soybean seed is easy to save; expect about 1 lb per 10 row feet.

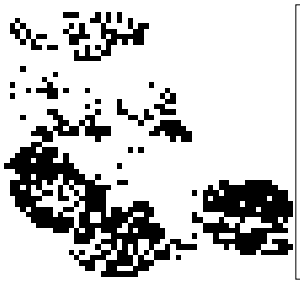
Beer Friend (87 days) *Not available* at press time. Check our website later this season for possible availability.

489FO Shirofumi OG (90 days) Vigorous thigh-high vines make early concentrated sets of light green pods, averaging two beans per pod. The 10-day picking window is generally from late August through early September. An excellent substitute for limas in short-season areas. Our stock seed came from Tom Vigue, who has done considerable trials and selection work with this crop. ID-certified. ①
A=1/2oz, $1.50 **B**=2oz, $4.00 **C**=8oz, $10.00
D=1lb, $18.00 **E**=5lb, $84.00

490TO Tankuro OG (90 days) In Japan, edamame grown from black-seeded varieties are deemed to have a richer and sweeter flavor than those grown from the traditional green- or tan-seeded kinds so we sought the best black-seeded variety. For productivity and pleasing flavor, Tankuro proved to be the winner in our trial. In the exceptional heat of 2010, our May 25 planting produced robust 3' plants loaded with pods packed with an average of 2.4 beans each. They ripened beginning Aug. 17, the same day as Shirofumi. In the less favorable 2011 season, they would probably have come in around September 1. Harvest promptly when the immature seeds are bulging yet the pods are still dark green, before the plants begin to yellow. Those pods that you miss will dry down, maturing beautiful black pearls that can provide your planting stock for next year. **NEW!** OEFFA-certified. ①
A=1/2oz, $1.50 **B**=2oz, $4.00
C=8oz, $10.00 **D**=1lb, $18.00

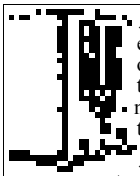
492SO Sayamusume OG (92 days) Ripens just after Shirofumi with longer, darker pods and sweeter beans. The best-tasting variety in CR's and Roberta's grow-outs with an appealing sweetness if allowed to ripen fully. 2.21 beans per pod in our plot, compared to 1.99 for Shirofumi. For areas with sufficient heat, Sayamusume is our choice to complete the season. Ripens Aug. 25 for us most years; early September in cold seasons. OEFFA-certified. ①
A=1/2oz, $1.50 **B**=2oz, $4.00 **C**=8oz, $10.00 **D**=1lb, $18.00

Soybean Inoculant See #**799.**



Fedco Supports Sustainable Agriculture

At our 2011 Annual Meeting, the staff voted to allocate up to $18,000 to our Education Subsidy Fund for next year. We donate this money to individuals and groups working on projects that further goals of cooperation, preserve and extend our genetic diversity, and educate consumers, gardeners and farmers about the benefits of sustainable agriculture. We help underwrite the Scatterseed Project, NOFA's *Natural Farmer* newspaper, MOFGA's fairgrounds and education center, the annual Vermont NOFA winter conference, Maine Apple Day and other worthy endeavors. We invite individuals and groups with educational, cooperative or research projects to write for an application.



…To those who say that our expenditures for Public Works and other means for recovery are a waste that we cannot afford, I answer that no country, however rich, can afford the waste of its human resources.…

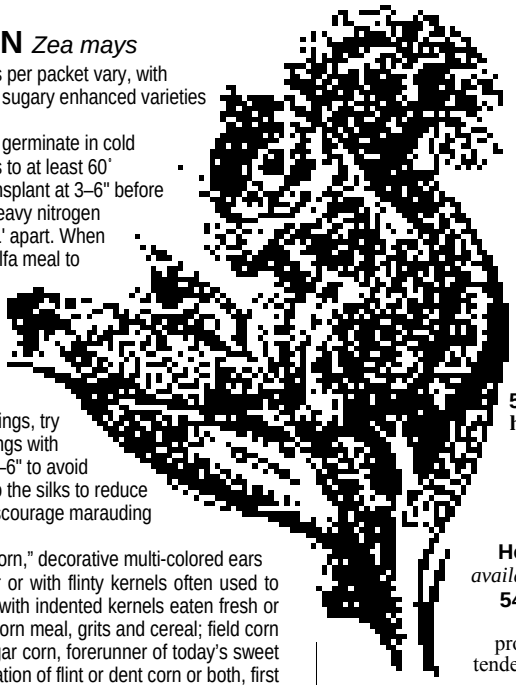
…I still believe in ideals. I am not for a return to that definition of Liberty under which for many years a free people were being gradually regimented into the service of the privileged few.…

…The overwhelming majority of people in this country know how to sift the wheat from the chaff in what they hear and what they read. They know that the process of the constructive rebuilding of America cannot be done in a day or a year, but that it is being done in spite of the few who seek to confuse them and to profit by their confusion.…
Fireside Chat 9/30/34

AMAIZING CORN *Zea mays*

2 oz packet sows 50 ft, 1 lb sows 400 ft. Seeds per packet vary, with open-pollinated selections having the fewest and sugary enhanced varieties with shrunken seeds the most.

CAUTION. Untreated sweet corn seed will not germinate in cold wet soil. Please be patient and wait till soil warms to at least 60˚ before sowing, or start seedlings indoors and transplant at 3–6" before taproots take off. Tender, will not survive frost. Heavy nitrogen requirements. Rows 3' apart, 4 seeds/ft. Thin to 1' apart. When corn is knee-high, side-dress with azomite or alfalfa meal to stimulate growth. Plant in blocks of at least 4 rows to ensure adequate pollination, essential for good tip fill. If you have insufficient space for enough plants for good pollination try hand-pollinating by cutting off the tassels and shaking their pollen onto the silks.



If you have trouble with crows pulling up seedlings, try Bird-Scaring Balloons (see #**8820**) or cover sowings with floating row covers (#**9101**). Remove covers at 3–6" to avoid plant abrasion. Apply a few drops of mineral oil to the silks to reduce earworm damage. Interplant with pumpkins to discourage marauding critters.

Seed catalogs in the 1800s featured "Indian Corn," decorative multi-colored ears with soft starchy kernels easily ground into flour or with flinty kernels often used to make corn meal and grits (#**680**-**696**); dent corn with indented kernels eaten fresh or roasted in the milk stage or used to make flour, corn meal, grits and cereal; field corn for animal forage and silage (#**8061**-**73**); and sugar corn, forerunner of today's sweet corn. Sweet corn seed, probably originally a mutation of flint or dent corn or both, first appeared in commerce in 1828 and became popular a generation later. As sweet corn became the first crop to be hybridized, most of the open-pollinated varieties disappeared between 1930 and 1970. Less sweet than modern hybrids, open-pollinated varieties also do not hold as long, and will come back into vogue only if taste preferences change.

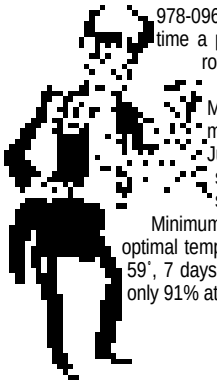
All sugary enhanced sweet corn traces back to a single inbred developed in the 1960s in Illinois by Dr. Dusty Rhodes, ILL677a. Our trialers have found SE corn to be especially suitable to our climate, with good cool-soil tolerance and a near-perfect blend of sugars and corn flavor.

A new breeding frontier for sweet corn? Increasing its levels of beta carotene—the more orange the kernel the greater the beta carotene content.

We randomly test sweet corn seed for transgenic contamination. Please see p. 7 for details.

We cold-test all significant carryover lots of sweet corn seed and post results on our website. Cold-testing mimics spring conditions and assesses suitability for sowing in cool soils.

The corn smut fungus *Ustilago maydis*, formerly scorned, is increasingly considered a great delicacy. *Huitlacoche*, as it is known in Central and South America, is featured in fine restaurants. In a test of 350 hybrid corns, the University of Illinois found that #**658** Silver Queen is one of the best for producing large clusters of smut galls.



According to Robert Kourik in *Roots Demystified* (ISBN 978-0961584832) corn develops an amaizing root system. By the time a plant has just eight leaves, it has produced 15–23 main roots and an astonishing 8,000–10,000 lateral roots.

Want to enjoy the best sweet corn in the world? Hadley, MA, market grower Dan Pratt has made his timing and method of picking into an art form. In a terrific article in the June-July 2009 edition of *Growing for Market* he shared his secrets. Worth a year's, maybe even a lifetime, subscription!

Minimum soil temperature 50˚, optimal temperature range 60-95˚, optimal temperature 80˚. Emergence takes 22 days at 50˚,12 days at 59˚, 7 days at 68˚, only 4 days at 77˚. 98% normal seedlings at 77˚, only 91% at 86˚.

"Thank you for your fantastic company and spirit of sustainability for small scale agriculture! We support you because you support us."
—Jessica McAleese, Pocatello, ID

Most of the information in these sidebars comes from Cornell's *Resource Guide for Organic Insect and Disease Management* (available online).

Pest: corn earworm
Cultural controls: use resistant varieties with tight husks such as #**541** Bodacious R/M or #**658** Silver Queen, choose short-season varieties, release trichogramma wasps. (Beneficial insects are available from The Green Spot at www.greenmethods.com or 603-942-8925.)
Material controls: *Bt Kurstaki* (Dipel #**8902**-**8906**), Spinosad (#**8922**-**4**)

Pest: European Corn Borer (ECB) and fall armyworm
Cultural controls: mow & disk old corn stalks into the soil, release trichogramma wasps (found to give better control than insecticides in research by Cornell's IPM program on five organic farms) for ECB; none known for fall armyworm.
Material controls: *Bt Kurstaki*, Spinosad

YELLOW SWEET CORN

508ST Spring Treat (71 days) The choice of early corn cornoisseurs, Spring Treat continues to be by far our most popular sweet corn. We've tasted a lot of new earlies in recent years, but none have zinged our taste buds like this yellow **sugary enhanced hybrid**. Spring Treat ripens around the time of Sugar Buns, with longer ears that are easier to pick and a rich cornier taste unusual for an early ripener. Not as sweet as Sugar Buns, but better eating quality, ear length and appearance than any other early corn. ⑤
A=2oz, $3.00 **B**=8oz, $11.50 **C**=1lb, $22.00 **D**=5lb, $105.00 **E**=10lb, $200.00

Ashworth OG (72 days) We're sorry this variety is *not available in 2012.* The seed crop had only 35% germination.

524SB Sugar Buns (74 days) Yellow **sugary enhanced hybrid** from Crookham with sublime tenderness. About as sweet as our palates like, but not cloying like the super-sweets. Sugar Buns does not have as good cold soil emergence as other early corns; please don't rush it. ②
A=2oz, $2.50 **B**=8oz, $8.50 **C**=1lb, $16.00 **D**=5lb, $75.00 **E**=10lb, $140.00

Honey Treat (76 days) Dropped by the supplier; *no longer available.* Try #**547** Honey Select.

541BS Bodacious RM (77 days) A bold flavor for a bold name, Crookham's **sugary enhanced hybrid** dependably produces outstanding 8" ears with exceptionally sweet corny tender yellow kernels. Same as the original Bodacious but with enhanced disease resistance. Some report it to be a fussy germinator. Resistant to ST, MDMV and R. ②
A=2oz, $2.40 **B**=8oz, $8.00 **C**=1lb, $15.00 **D**=5lb, $70.00 **E**=10lb, $130.00

547HS Honey Select (80 days) For those who like firm flavorful crunchy kernels, here is one honey of a corn. Honey Select pops in your mouth with a distinctive sweetness that mixes well with its flavor. During the taste test, evaluater Heron Breen said it took all his will power not to gobble every ear from Donna Dyrek's table. He made repeat visits to Donna's corn patch to trade his extra trial melons for more Honey Select. He and staffer Anne Hallee agreed that it tasted "like the best corn of our childhoods."
TripleSweet sugary enhanced hybrid produces refined 8" ears with 18–20 rows of subtly colored golden yellow kernels. Contains 25% supersweet kernels on each ear but need not be isolated from other varieties to retain optimal flavor. Outperformed Honey Treat in the trial. **NEW!** ⑤
A=2oz, $2.40 **B**=8oz, $9.00 **C**=1lb, $17.00 **D**=5lb, $80.00 **E**=10lb, $150.00

556TX Tuxedo (80 days) **Sugary enhanced hybrid**. A well-dressed yellow sweet corn with good husk protection to keep those pesky earworms out! Its surface attributes are bolstered by its rich sweet tender corn taste and handsome 8" ears with 16 rows of delicious kernels that will melt in your mouth. Tuxedo can germinate at cool temperatures and withstand a fair amount of stress. This is the closest I've come to a tuxedo since my high school prom. Tolerant to ST, R and SM. Supplier is dropping; no new crop. Held-over seed germinates at 82%. *In very short supply; order early.* ⑤
A=2oz, $2.60

558SP Sumptuous (81 days) Sumptuous lives up to its lavish name. By far the best of the 11 entrants in our 2008 Loon Song corn feast, this **sugary enhanced homozygous hybrid** delivered a distinctive grassy flavor that pleased our tasters. Not overwhelmingly sweet, the tender juicy yellow kernels had just what this Silver Queen lover craves. Handsome 20-rowed 8½" ears well-swathed in protective husks also have the looks that market growers want. Outperformed Bodacious in our taste test. ⑤
A=2oz, $2.30 **B**=8oz, $8.50 **C**=1lb, $16.00 **D**=5lb, $75.00 **E**=10lb, $140.00

559GB Golden Bantam (85 days) **Open-pollinated**. Upon its release in 1902, Golden Bantam changed sweet corn preferences, overcoming popular prejudice against yellow corn (once called "horse corn") and ending the dominance of white varieties. By 1934, Bantam had so captured the market that U.P. Hedrick wrote in *The Corns of New York*, "This has been for several years the most popular sweet corn for all purposes. The name has become so thoroughly impregnated in the minds of the growers and consumers that many of them will not accept anything else." Graced Burpee's 50th Anniversary cover in 1926 and Johnny's cover in 1980. Long narrow 7" ears sit on 5–6' stalks. Very sweet and tasty if picked promptly at maturity. High on old-fashioned corn flavor. Like most open-pollinated corn, Bantam passes quickly through the milk stage and gets tough. Be alert and check daily as ripeness approaches. ③

A=2oz, $1.50 **B**=8oz, $4.00
C=1lb, $7.50 **D**=5lb, $32.00
E=10lb, $60.00

561NM Incredible RM (85 days) Crookham's superior late-midseason gourmet selection was a full tassel-length ahead of the competition at our trial, where its handsome 8" tip-filled yellow ears were scrumptious. Crookham calls it the most popular homozygous **sugary enhanced hybrid** in the world. Incredible is not merely sweet, it really delivers a deep corn taste. Good husk protection and tolerance to ST, enhanced resistance to MDMV and R. Poor cold-soil emergence. ②

A=2oz, $2.20 **B**=8oz, $7.50 **C**=1lb, $14.00
D=5lb, $65.00 **E**=10lb, $120.00

564KK Kandy Korn (89 days) Attractive deep purple husks and excellent holding quality make this **hybrid** yellow corn a real winner at roadside stands. One of the first **sugary enhanced** varieties, Kandy Korn has stood the test of time, and continues to enjoy well-deserved popularity. Tolerant to ST, R. ⑤

A=2oz, $2.10 **B**=8oz, $6.50 **C**=1lb, $12.50
D=5lb, $60.00 **E**=10lb, $115.00

BICOLOR SWEET CORN

577FL Fleet (72 days) In sweet corns, the race is not always to the fleet. Most of the corns first to the finish line don't deliver on flavor. Fleet, a **homozygous sugary enhanced hybrid** version of Quickie, is the exception, just a whisker behind Quickie in maturity, but several mouthfuls ahead in eating quality. Along with Quickie, Fleet became the first sweet corn at Shooting Star Farm ever to ripen in July (the 26th) from mid-May transplanting during the hot dry spring of 1999. The 7" bicolor ears fill nicely to the tips with enough succulence to bring your roadside-stand customers back for more. Not as good cold soil emergence as Quickie, but its superior flavor tips the balance for us. ②

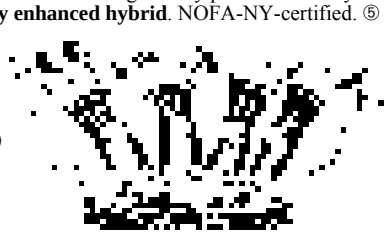
A=2oz, $2.50 **B**=8oz, $8.50 **C**=1lb, $16.00 **D**=5lb, $75.00
E=10lb, $140.00

582AM Ambrosia (75 days) Ah! Those heavenly moments of high summer! Out of the pot come steaming ears of bicolor bliss covered with dewdrops of condensation. Into my mouth where the tender corny kernels mix their sweetness into a total sensation of ambrosial delight. Our corn tasters, for all their enjoyment of the process, are a contrary lot, so when they come to consensus, as they did on Ambrosia, we know we've found something good. This **homozygous sugary enhanced hybrid** is perfect for a wide range of markets, from fresh home-garden use to long-distance shipping. The 6½' plants show good early vigor. In stressful conditions the tips don't always fill. Tolerates ST. ②

A=2oz, 2.40 **B**=8oz, $8.50 **C**=1lb, $16.00
D=5lb, $75.00 **E**=10lb, $140.00

588LO Luscious OG (77 days) Light up your taste buds with lip-smacking lusty Luscious! If you like your corn sweet, Luscious really lives up to its name. With a good balance of sugars and corn taste, the attractive blunt 8" ears are just what you want in an early midseason bicolor. Easy to grow, too, with good cold-soil emergence and early vigor. A breakthrough for the folks at Mesa Maize, Luscious was their first organically produced variety. **TripleSweet sugary enhanced hybrid**. NOFA-NY-certified. ⑤

A=2oz, $3.30
B=8oz, $13.00
C=1lb, $25.00
D=5lb, $120.00
E=10lb, $220.00
K=25lb, $440.00



Do we sell graded seed? While the open-pollinated varieties we offer are almost never graded, we do receive graded seed for some of the hybrids, particularly in sweet corn, summer squash, brassica and pepper. Call our facilitators at (207) 873-7333 if you need specific information about seed size for a given hybrid variety, and we will help when we can.

598NT Nauset (81 days) Sweet corn lovers, you're missing the beach (to say nothing of the boat) on Nauset. What fine eating this **synergistic cross** from Mesa Maize offers! The long slender ears may be a little deceptive as to ripeness (still skinny at their peak) and hard to pull off the stalk, but their flavor is worth the trouble. In fact, they are without peer for roasting or barbecuing. Their exquisite tenderness and delicate balance between sugars and corn flavor made them the favorite of our 2009 tasters and a memorable treat. 26 lb. remaining at 90% germination. *This is our last year to offer.* ②

A=2oz, $2.40 **B**=8oz, $8.50

602LL Lancelot (82 days) We took notice when Loon Song Farm trialers rated this midseason bicolor **sugary enhanced hybrid** as better than Burgundy Delight. Lancelot has a lot going for it besides its sweet tender kernels. It snaps easily, is very drought tolerant, and shows good tip fill. Tolerant to ST. ②

A=2oz, $2.40 **B**=8oz, $9.00
C=1lb, $17.00 **D**=5lb, $80.00
E=10lb, $150.00

604SD Serendipity (82 days) Full-bodied flavor with good balance between sugary and traditional corn taste. Serendipity has the soft-crisp creamy texture and heavenly bouquet that you will want to savor again and again. Along with #**547** Honey Select, Heron's favorite in the 2011 trials. A **sugary enhanced** variety spiked with **25% supersweet genes** (no, they're not transgenic!), it should be isolated from other sweet corn varieties to bring out its best. Market growers will like its extended harvest window. "We ate it for…all of September with outstanding flavor and sweetness the whole month," relates Rise Richardson of Phillipston, MA. **TripleSweet hybrid** features 7–8" bicolor ears with good tip fill. Resistant to SCLB. ⑤

A=2oz, $2.30 **B**=8oz, $8.50 **C**=1lb, $16.00 **D**=5lb, $75.00
E=10lb, $140.00

MULTICOLOR SWEET CORN

616HO Painted Hills OG (80 days) A work of three geniuses: Dave Christensen, the breeder of # **680** Painted Mountain Corn, Alan Kapuler, former Seeds of Change research director, and Luther Hill, developer of the corn of the same name in 1902. Kapuler crossed Christensen's Painted Mountain Indian Corn to venerable heirloom Luther Hill. The resulting vigorous 6–7' plants emerge rapidly and tolerate cool soil well. They average two 8" ears with fairly thin tight husks that are hard for earworms to penetrate. Mostly white kernels, but often interspersed with yellows, reds, purples, *multicolors in the fresh eating stage.* Garland, ME, breeder Relentless found "real oldtimey corn taste, not too sweet, but sure sweet enough and they steamed up wonderfully. A winner for us **open-pollinated** diehards." Maturity is staggered—good for home gardeners. Passes through the edible milk stage quickly—be alert! **BACK!** OT-certified. ①

A=2oz, $3.00 **B**=8oz, $12.00
C=llb, $23.00 **D**=5lb, $110.00
E=10lb, $210.00

SWEET CORN SELECTIONS AT A GLANCE

variety	item #	days	color	type*	avg height	ear length	# rows
Spring Treat	508	71	yellow	se-se	72"	7-8"	14
Sugar Buns	524	74	yellow	se-se	76"	6-7"	14
Bodacious RM	541	77	yellow	se-se	87"	8"	18
Honey Select	547	80	yellow	se-se-se-sh2	84"	8"	18-20
Tuxedo	556	80	yellow	se	90"	8"	16
Sumptuous	558	81	yellow	se-se	76"	8-9"	20
Golden Bantam	559	85	yellow	op	66"	7"	8
Incredible RM	561	85	yellow	se-se	90"	8"	18
Kandy Korn	564	89	yellow	se	102"	8"	16
Fleet	577	72	bicolor	se-se	60"	7"	14
Ambrosia	582	75	bicolor	se-se	78"	8"	16
Luscious	588	77	bicolor	se-se-se	75"	8"	16-18
Nauset	598	81	bicolor	se-se-se-sh2	82"	8-9"	18
Lancelot	602	82	bicolor	se-se	84"	7-8"	16-18
Serendipity	604	82	bicolor	se-se-se-sh2	75"	7-8"	16-18
Painted Hills	616	80	multicolor	op	78"	8"	7-9
Spring Snow	626	73	white	se-se	66"	7-8"	12-16
Shasta	632	79	white	se-se	79"	8"	16
Augusta	639	84	white	se-se	78"	8-9"	16-18
Silver Queen	658	96	white	ns	102"	8"	14-16

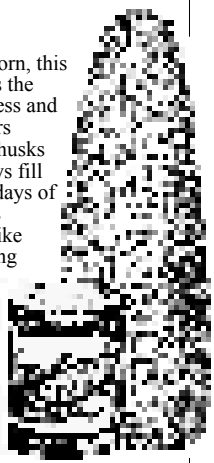
*genetic type
op = open-pollinated
ns = normal sugary
se = heterozygous sugary enhanced
se-se = homozygous sugary enhanced
sh2 = supersweet
se-se-se = TripleSweet® sugary enhanced

If you plant corns of different color kernels next to each other, you will get some cross-pollination. Separate by 8-10 rows' distance to maintain color purity.

WHITE SWEET CORN

626SS Spring Snow (73 days) **Sugary enhanced hybrid**. If you, like me, prefer your kernels white, don't overlook Spring Snow, an early white sweet corn with a real corny flavor. Delivers 7 1/2" ears of excellent quality for early in the season. We've looked for years at other early whites; none surpass Snow. Tolerant to ST, resists lodging. ⑤
A=2oz, $2.60 **B**=8oz, $10.00 **C**=1lb, $19.00 **D**=5lb, $90.00 **E**=10lb, $160.00

632SH Shasta (79 days) **F-1 hybrid**. Not for the sugar shy, Shasta will reward all others with huge mouthfuls of tender juicy superbly sweet corn flavor. The folks at Mesa Maize have rediscovered extreme kernel depth from some of the first hybrids and the best heirlooms. For the feeling of sinking into buttered heaven bite into these extra thick 8" pure white ears and enjoy their rich **homozygous SE** sugars. ⑤
A=2oz, $2.20 **B**=8oz, $7.50 **C**=1lb, $14.00 **D**=5lb, $65.00 **E**=10lb, $120.00



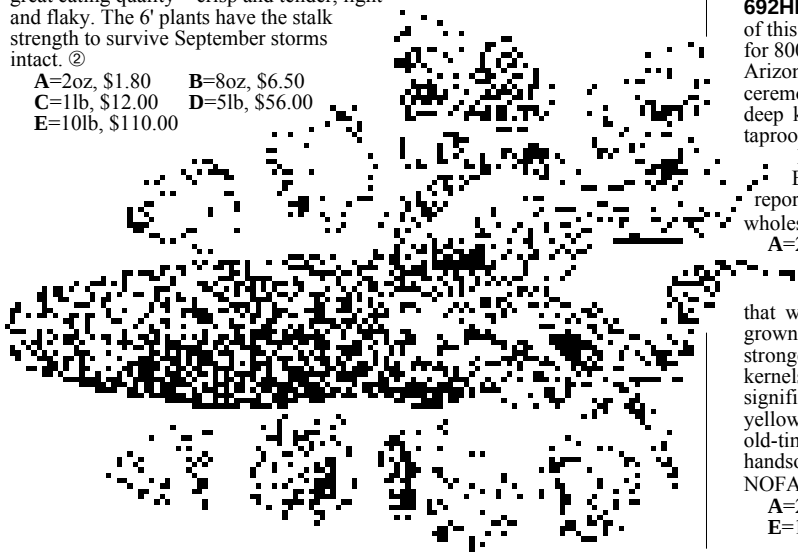
639GU Augusta (84 days) The emperor of white sweet corn, this delectable **homozygous sugary enhanced hybrid** achieves the pearly mean in good eating quality. Intermediate in sweetness and length of maturity between Shasta and Silver Queen, it bears perfect substantial 8–8 1/2" cylindrical ears with dark green husks that sit low on 6 1/2' stalks for easy harvest and almost always fill to the tips. Beginning Aug. 21, 2010, Eli and I enjoyed 10 days of sweet corn delirium and I came to love Augusta as much as Silver Queen. To keep the integrity of superb sweet corns like these, we must regulate transgenics, and that requires making occasional trips to Maine's capital city, Augusta, to try to reach our recalcitrant legislature. ⑤
A=2oz, $2.20 **B**=8oz, $7.50 **C**=1lb, $14.00 **D**=5lb, $65.00 **E**=10lb, $120.00

658SQ Silver Queen (96 days) Since the much-lamented demise of Platinum Lady, Silver Queen has been my favorite, exhibiting the perfect balance I usually find lacking in more modern varieties. Like Sugar & Gold to the previous generation, Silver Queen has become so classic as to constitute a generic brand. Most farmers claiming to offer it have actually switched to more modern hybrids. However, we know some who still prefer to grow the real Queen, and that's what we offer. This white **hybrid** has long set the standard for late-maturing sweet corn with large handsome ears, replete with glossy white creamy sweet kernels that fill to the very tips. As our summers get hotter, Queen has been ripening in late August and early September instead of sneaking in just ahead of our first killing frosts late in September. Other varieties may be sweeter, but I can't think of a better way to end the corn season. *Caution: said to germinate poorly in cold soil, though we have received few complaints.* Tolerant to NCLB, ST. ⑤
A=2oz, $2.20 **B**=8oz, $7.50 **C**=1lb, $14.00 **D**=5lb, $68.00 **E**=10lb, $130.00

POPCORN See also #**5940.**

663JH Japanese Hulless (72 days) Use this **open-pollinated** variety to raise miniature corn for Chinese cuisine. Harvest the fingerlike baby ears around five days after silks appear. They are delicious in hors d'oeuvres and stir-fries and make excellent pickles. Or allow to grow to full size for popcorn in 110 days from sowing. The 5' plants each bear three to six 4" ears with white kernels. ②
A=2oz, $1.50 **B**=8oz, $5.00 **C**=1lb, $9.00 **D**=5lb, $36.00 **E**=10lb, $65.00

677RW Robust 98114W White (98 days) **F-1 hybrid**. Replaced Robust 21-82W. Taller, a bit later, higher yielding with larger kernels and ears, and greater poppability than 21-82W, this midseason white hull-less popcorn has great eating quality—crisp and tender, light and flaky. The 6' plants have the stalk strength to survive September storms intact. ②
A=2oz, $1.80 **B**=8oz, $6.50 **C**=1lb, $12.00 **D**=5lb, $56.00 **E**=10lb, $110.00



678DO Dakota Black OG (100 days) **Open-pollinated.** Outstanding in our observation plots two years in a row. Compact plants with one ear each. Our tasters rated the popcorn "Oh, so scrumptious." In addition to their popping qualities, Dakota Black's 4 1/2" dark maroon-black ears with 15 rows are extremely decorative, a must for the fall roadside stand. 4' stalks. ICS-certified. ①
A=2oz, $2.60 **B**=8oz, $10.00 **C**=1lb, $18.00 **D**=5lb, $85.00 **E**=10lb, $160.00

679BO Pennsylvania Dutch Butter Flavored OG (102 days) This **open-pollinated** popcorn is so good on its own that you won't need to add any nutritional yeast. Our trialers agreed that it was the best they'd ever tasted: creamy, buttery and delicious. Incredibly green and healthy 8' plants with very long dark green leaves set two 4–6" ears per stalk, with 26–28 rows (occasionally 22) of fat creamy white kernels. Thanks to our friends at Southern Exposure Seed Exchange for enabling us to offer this pre-1885 Pennsylvania Dutch heirloom. SESE was the first to bring this variety to commerce, in 1988. QCS-certified. ①
A=2oz, $3.00 **B**=8oz, $11.50 **C**=1lb, $22.00 **D**=5lb, $100.00 **E**=10lb, $190.00

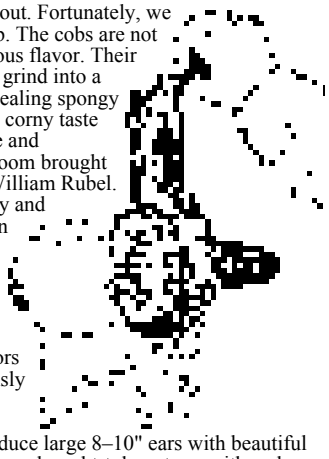
ORNAMENTAL & DRY FIELD CORN

All open-pollinated. Days to maturity are for dry stage.

680PO Painted Mountain OG (85 days) Short efficient 5' plants, long thin 6–7" cobs! Painted Mountain is the hardiest, fastest-maturing grain corn in the world. Dave Christensen has spent 37 years developing it in the mountains of Montana from a diverse gene pool of about 80 strains of native corns. Contains vivid golds, oranges, reds and purples, about every shade of color known to corn. High in anthocyanins. Bred to withstand high winds, cold temperatures, intense heat and drought, and to survive global warming. Painted Mountain grows where no other corn can. MT-certified. ①
A=2oz, $4.00 **B**=8oz, $15.00 **C**=1lb, $28.00 **D**=5lb, $135.00 **E**=10lb, $260.00

682CO Abenaki Calais Flint OG (88 days) An improved strain of Roy's Calais Flint, selected by Vermont seed grower Jack Lazor for 10-row ears and strong feeder roots. The original, kept by the northern Vermont Abenaki tribe for generations, had 8 rows of kernels. Abenakis passed it on to local farmers who shared it with Vermont seedsman Tom Stearns. Stearns has called it the most exciting heirloom he was ever given: "Incredibly early and able to grow well under cold conditions." Survived even the legendary summer of 1816 ("Eighteen hundred and froze to death.") Most of the 7–9" ears are golden yellow but a minority are a beautiful dark maroon. MOFGA-certified. ①
A=2oz, $2.40 **B**=8oz, $9.00 **C**=1lb, $17.00 **D**=5lb, $80.00 **E**=10lb, $150.00

688FO Floriani Red Flint OG (100 days) *Z. rostrato* Floriani has generated unprecedented interest. Had we chosen to take reservations for this year's crop it might already be sold out. Fortunately, we expect to get a full crop of at least 750 lb. The cobs are not only beautiful, but they also boast fabulous flavor. Their red pointed kernels are easy to shell and grind into a fine pinkish meal that bakes with an appealing spongy texture. Floriani's richly sweet delicious corny taste beat the competition silly in our pancake and cornbread muffin bake-off. Family heirloom brought from the Valsugana Valley of Italy by William Rubel. Once the staple polenta corn in the valley and named for Rubel's friends who've grown it there for many years. *Even though we have a big crop, order early to avoid disappointment!* QCS-certified. ②
A=2oz, $2.30 **B**=8oz, $8.50 **C**=1lb, $16.00 **D**=5lb, $75.00



692HB Hopi Blue (100 days) Precursors of this strain have been raised continuously for 800 years on the mesas of northern Arizona. Used by the Hopis to make ceremonial *piki* bread. Tall 9' plants produce large 8–10" ears with beautiful deep kernels easily ground into flour. Very drought-tolerant, with a long taproot. Withstood temperatures of over 100 ° and survived a June 2008 Kansas storm with winds up to 83 mph and softball-sized hail. Dick Burnham of Talking Crow Organic Farm in western Massachusetts reports it is not just for flour, it is good to eat, "crunchy, corny and wholesome." ②
A=2oz, $1.30 **B**=8oz, $5.00 **C**=1lb, $8.00 **D**=5lb, $35.00 **E**=10lb, $65.00

696GO Garland Flint OG (105 days) Jack Lazor recommended that we bring back this classic New England flint corn. Lazor, who has grown both Garland and Abenaki, says Garland has the better agronomics: stronger brace roots to hold up its stouter stalks, bigger ears and plumper kernels. Unlike Abenaki, Garland can be machine picked. It does require a significantly longer season. Most of its 7–8" ears are yellow or caramel-yellow, the balance dark red. George Garland of Alstead, NH, one of last old-time producers of traditional New England corn, developed this handsome variety by crossing Longfellow Flint with King Phillip. NOFA-VT-certified. ①
A=2oz, $2.00 **B**=8oz, $7.50 **C**=1lb, $14.00 **D**=5lb, $60.00 **E**=10lb, $110.00

PEAS *Pisum sativum*

2 oz packet sows 25 ft, 1 lb sows 200 ft, avg 250 seeds/2 oz packet. All peas are open-pollinated.

Young plants are very hardy but frost stops production at the blossom or pod stage. Like cool moist weather; dislike heat, so not well adapted to southern climates where the spring heats up too quickly. Sow as early as ground can be worked for best yields. All peas produce more when staked; varieties over 2½' *must* be supported. Plant 8–10 seeds/ft. in rows 3' apart (5' if very tall varieties). Early morning picking retards spread of powdery mildew disease and ensures best flavor. To combat the fungus try Actinovate (#**8855-6** in the supplies section).

If you love peas as much as we do, try for a second crop in the fall. Timing is crucial, as peas ripen slowly in the cool of September, and frost will halt production. We recommend planting the first two weeks of July for a fall crop in central Maine. Warmer areas try later July. If the summer is hot, cool the soil with a hay mulch in advance of planting, or shade peas with tall crops to hold in soil moisture.

Off-types continue to be a recurrent problem in conventional pea seed crops. We've noted the increasing prevalence of a tall pale-green rogue in #**732** Early Frosty, #**748** Little Marvel and #**760** Green Arrow. Pull these plants out or consider switching to our organic productions that have fewer off-types, and are, in our opinion, worth the extra cost.

Smooth-seeded peas germinate better in colder soils than wrinkle-seeded peas, but are not as sweet. Minimal soil temperature for pea seed germination: 40˚. Optimal range 50-75˚, optimal temperature 75˚, emergence takes 14 days at 50˚, 9 days at 59˚, only 6 days at 77˚. Longtime customer Pam Dawling in Virginia suggests that forsythia flowering signals time to sow snap and snow peas.

SHELL PEAS

710CL Coral (53 days) Makes harvesting peas before July 4th a cinch, even in cold pockets (except in clay soils after very wet springs). The best quality early pea we've found, second only to Green Arrow in popularity. Short vines barely surpass 2' and tend to set earliest pods low. Consistently averages 6–7 peas per pod. PVP. Resists F1, PLR. ③

A=2oz, $1.30 **B**=8oz, $4.00 **C**=1lb, $6.00
D=5lb, $20.00 **E**=10lb, $35.00 **K**=25lb, $70.00
L=50lb, $125.00

732FR Early Frosty (60 days) Outstanding quality and sweetness, a superior variety for freezing. At its best before the pods are completely filled. Tricky to pick, but one of the easiest to shell. Holds quality for a long time after picking. Vines grow up to 3'. Susceptible to powdery mildew; performs best in early sowings. Production is dependable, often exceeding 30 lb/100 row feet. 6.46 peas per pod in 2007. Resistant to F and W. ③

A=2oz, $1.30 **B**=8oz, $4.00 **C**=1lb, $6.00
D=5lb, $20.00 **E**=10lb, $35.00 **K**=25lb, $70.00
L=50lb, $120.00

Patriot (62 days) True patriots like Wisconsin's former Senator Russ Feingold, the lone in 100 having the courage to vote against the Patriot Act, are hard to find. Perhaps he would consider running for President. Alas, these Patriots will also be hard to find for at least one more year. *Not available this year* due to crop failure.

744PR Progress #9 (62 days) Old-time favorite home-garden variety for those who want short vines, decent early production and easy picking. Even if you don't stake the 16–18" vines, you will enjoy good abundant 4" pointed dark pods with delicious flavor. Easy to tell when the peas are prime because, in the words of our trialer, this one's "a filler, not a squeezer," meaning pick when the pods are filled out. 6–9 very sweet peas per pod. ③

A=2oz, $1.30 **B**=8oz, $4.00 **C**=1lb, $6.00 **D**=5lb, $20.00
E=10lb, $35.00 **K**=25lb, $70.00 **L**=50lb, $120.00

748LM Little Marvel (63 days) An old-fashioned home garden favorite, bears tightly packed cylindrical pods on 18" vines. Very sweet. Surprising yields for such a dwarf plant. From England in 1900, known there as Sutton's Early Marvel. Introduced to the U.S. in 1908. The Frank S. Platt Co. of New Haven, CT, described it in 1917 as "surely a comer…will not disappoint the grower." A pound of seed sold for a quarter in 1932 from Gray's Seed and Implement Store catalog, Sanford, ME. ③

A=2oz, $1.30 **B**=8oz, $4.00 **C**=1lb, $6.00 **D**=5lb, $20.00
E=10lb, $35.00 **K**=25lb, $70.00 **L**=50lb, $120.00

"Love your pertinent but true comments about the political and economic situation of our country."
—Daniel Rivat, White River, VT

Green Arrow (65 days) The pea preferred by commercial growers, scores a bulls-eye almost every time. This heavy yielder sets the standard for midseason varieties. Long pods with up to 10 peas per pod (more typically 7–8) on vines up to 3'. 6.99 peas per pod average in 2011. Seems to withstand miserable and extreme weather better than other varieties. Easy to pick because pods tend to set in pairs at the top. Tolerant to F, DM, CTV, W.

760GA Green Arrow ③

A=2oz, $1.30 **B**=8oz, $4.00 **C**=1lb, $6.00 **D**=5lb, $20.00
E=10lb, $35.00 **K**=25lb, $70.00 **L**=50lb, $120.00

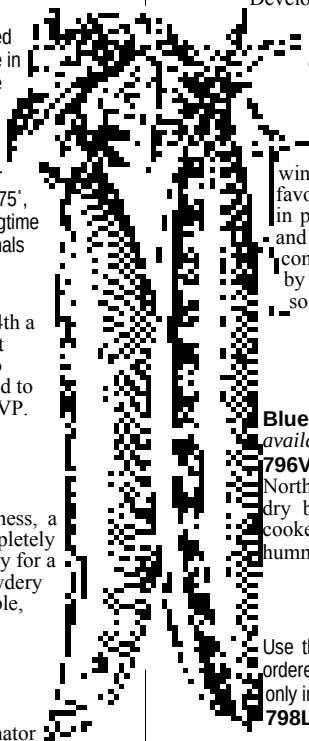
761GO Green Arrow OG ID-certified. ①

A=2oz, $2.00 **B**=8oz, $6.00 **C**=1lb, $10.00 **D**=5lb, $45.00
E=10lb, $80.00 **K**=25lb, $180.00

781LC Lincoln (70 days) This old English favorite rates as the sweetest pea and the best for fresh garden grazing. First offered in America by J.M. Thorburn in 1908, the year before the first Lincoln penny. Vines up to 3' bear 3–3½" slender curved pods with heaviest production in mid-July. Consistently 6–8 peas per pod, 7.14 average in 2011. In 2004 our 60 ft. row produced an all-time record 33 lb. Lincoln loves cool rainy Julys such as 2009 but production falls way off when July is hot and dry. Susceptible to PM and other diseases. Tolerant to W. ③

A=2oz, $1.30 **B**=8oz, $4.00 **C**=1lb, $6.00 **D**=5lb, $20.00
E=10lb, $35.00 **K**=25lb, $70.00 **L**=50lb, $120.00

788MO Mayfair OG (72 days) Mayfair has proven way superior in flavor and productivity to all others I've compared it against. Bears prolific yields of double pods atop 40" vines. Large 4" pods frequently have 8 to 10 peas with rich sweet buttery flavor. Averaged 8.14 peas per pod in 2011.



Developed at the New York State Agricultural Experment Station by world pea expert Dr. Gerald A. Marx (see our 1999 catalog for a profile). Dr. Marx assembled the largest pea germplasm collection in the world and Mayfair may have been the best of them all. Tolerant of heat and PM. Short crop this year; *order early.* CCOF-certified. ①

A=2oz, $2.50 **B**=8oz, $9.00

792AL Alderman or **Tall Telephone** (75 days) All-America winner Mr. Big got the hype, but failed to supplant this old-time favorite as our #1 tall pea. In our trial, Alderman topped Mr. Big in peas per pod, 7.65–6.94, in yield 38–28 lb. per 100 row feet, and in flavor. Alderman boasts vines of 5–6' or more under fertile conditions, needs strong staking and frequent picking. Introduced by renowned pea breeder Thomas Laxton around 1891 and first sold by Burpee in 1901. Resistant to W. ③

A=2oz, $1.30 **B**=8oz, $4.00 **C**=1lb, $6.00
D=5lb, $20.00 **E**=10lb, $35.00 **K**=25lb, $70.00
L=50lb, $120.00

SOUP PEAS

Blue Pod Capucijners OG (85 days) Crop failure; *not available.*

796VO Amplissimo Viktoria OG (90 days) The chickpea of the North, a soup pea *par excellence.* 5' vines bear long wide pods that dry beautifully and shell easily. Light tan pea delicious when cooked with a sweet garbanzo-esque flavor. Makes wonderful hummus. Average yield is 1:20. ☙2003. MOFGA-certified ①

A=1oz, $1.60 **B**=2oz, $3.00 **C**=8oz, $7.50

INOCULANT

Use these catalog #s if ordering from the Seeds division. Can also be ordered from the Supplies section. Some other inoculants are available only in the Supplies section, p. 117.

798LG Legume Inoculant for peas and beans.
A=treats 8#, $4.50 **B**=treats 50#, $6.00

799SB Soybean Inoculant for soybeans.
A=treats 50#, $4.50

…An election cannot give the country a firm sense of direction if it has two or more national parties which merely have different names but are as alike in their principles and aims as peas in the same pod.…
Fireside Chat 6/24/38

EDIBLE PODDED PEAS

2 oz packet sows 25 ft. 1 lb sows 200 ft. Culture same as shell peas, except harvest snow peas before pods fill out. Don't pick snap peas too soon: snaps taste sweetest when completely filled. Young snow and snap plants can be eaten as greens, good in mesclun or lightly cooked. To serve pea shoots, remove the coarse tendrils and break the stalk into 3" pieces each with some leaves.

SNOW PEAS

Dwarf Grey Sugar (59 days) Off-types in supplier's stock; *not available in 2012.*

Dwarf White Sugar (59 days) Off-types in supplier's stock; *not available in 2012.*

Oregon Giant (60 days) This Oregon State University release bred by Dr. James Baggett is one of our two most popular snow peas. A giant selection from a giant breeder, Oregon Giant is distinguished for its sweet rich green fat wide 4–5" pods good for stir fries, steaming, and eating out of hand. Retains sweetness so may be picked a little plumper than the thin-podded varieties. We recommend staking the intermediate 3–4' vines. Resistant to PEMV, PM and F1.

818GT Oregon Giant ③
A=2oz, $1.50 **B**=8oz, $4.50 **C**=1lb, $7.00 **D**=5lb, $22.00
E=10lb, $38.00 **K**=25lb, $75.00 **L**=50lb, $135.00

819GO Oregon Giant OG ID-certified. ①
A=2oz, $2.00 **B**=8oz, $6.00 **C**=1lb, $10.00 **D**=5lb, $45.00
E=10lb, $80.00 **K**=25lb, $180.00

Blizzard OG (61 days) Crop failure; alas this popular variety is *not available this year.*

826SP Oregon Sugar Pod II (62 days) This short-vined snow pea from Oregon State University features 4" pods on 2–2½' vines. Difficult to pick because fruit tends to set within foliage. Good choice in sandy soils or under dry conditions. Tolerant to PM, PEMV, resistant to W. ③
A=2oz, $1.40 **B**=8oz, $4.00
C=1lb, $7.00 **D**=5lb, $22.00
E=10lb, $38.00 **K**=25lb, $75.00
L=50lb, $130.00

842MM Mammoth Melting Sugar (72 days) The standard climbing snow pea. Vines grow 5–7'. Very heavy yields of 4–5" pods. Continues to produce if kept picked provided powdery mildew does not strike. Very sweet eaten raw as well as sautéed. Heirloom predates 1906. ⑤
A=2oz, $1.50 **B**=8oz, $5.00 **C**=1lb, $8.00
D=5lb, $30.00 **E**=10lb, $48.00 **K**=25lb, $110.00
L=50lb, $190.00

SNAP PEAS

883GO Sugar Ann OG (58 days) This 1983 Silver All-America winner from Sugarsnap breeders Gallatin Valley is very popular both with home gardeners and commercial growers. The earliest snap pea, ripening in Central Maine around June 20. Very good quality, sweetest of the dwarf snap peas. 2' vines are not as heavy-yielding as tall Sugarsnap. Use to start the season. Allow extra space between rows if you do not stake. Vermont market farmer Alan LePage makes more money on Sugar Ann than on any other pea he grows. He suggests good timing is crucial for optimal root development early in the season, the key to high yields. In 2010 he sowed on Mar. 18! *Still a small percentage of off-types.* Resistant to W. ID-certified. ①
A=2oz, $2.00 **B**=8oz, $6.00 **C**=1lb, $10.00 **D**=5lb, $45.00
E=10lb, $80.00 **K**=25lb, $190.00 **L**=50lb, $350.00

Cascadia (65 days) It's a snap to grow Cascadia. Ripening about a week later than Sugar Ann on slightly taller (2½') vines, Cascadia offers a cascade of 3" pods, longer and darker green than Ann's and equally sweet. Developed by Dr. Baggett, tolerant to PM, and the first pea bred to be resistant to PEMV.

888CA Cascadia ③
A=2oz, $1.40 **B**=8oz, $4.20 **C**=1lb, $7.00 **D**=5lb, $22.00
E=10lb, $38.00 **K**=25lb, $80.00 **L**=50lb, $150.00

889CO Cascadia OG *Still has a small percentage of off-types.* ID-certified. ①
A=2oz, $2.00 **B**=8oz, $6.00 **C**=1lb, $10.00 **D**=5lb, $45.00
E=10lb, $80.00 **K**=25lb, $190.00 **L**=50lb, $350.00

893SO Sugarsnap OG (68 days) Always a top seller, over 4,000 packets ordered last year. Awarded the coveted AAS Gold Medal in 1979 and later voted the #1 all-time AAS. One of the very best raw treats in the garden, far tastier than the dwarf varieties, although more work to grow. Tall Sugarsnap vines climb 5–7' and need strong stakes. Pods reach superb sweetness only when completely filled. Then they are incomparable. Bred by Calvin Lamborn of Gallatin Valley. This superior production *still has a very small percentage of off-types.* Resistant to W, very susceptible to PM. ID-certified. ①
A=2oz, $2.00 **B**=8oz, $6.50 **C**=1lb, $11.00 **D**=5lb, $50.00
E=10lb, $85.00 **K**=25lb, $200.00 **L**=50lb, $380.00

OPEN-POLLINATED MELONS

Fascinated by heritage melons? Amy Goldman's *Melons for the Passionate Grower* (ISBN 1-57965-213-1), a mouth-watering journey through her 100 favorite varieties, is an indispensable identification and cultural aide in trials work. Goldman says we routinely discard the most nourishing part of the melon: the seeds. Watermelon seeds have been an important part of African and Chinese diets. The watermelon rind, another oft-overlooked feature, makes good pickles.

Melon seed lives more than 10 years with proper storage. 18th- and 19th-century growers preferred to sow 4- to 10-year-old melon seed, believing that such seeds produced plants that spread less and fruits with a finer perfume.

Days to maturity are from date of transplanting.

Open-pollinated CANTALOUPE & MUSKMELON

Cucumis melo

Cantaloupes are named for the papal gardens of Cantalupo, Italy, where some historians say the first cantaloupe was grown. They are smooth-skinned or lightly netted with few ridges. Some are warted. Muskmelons are usually heavily netted and deeply ribbed with larger seed cavities than cantaloupes. Both have orange flesh unless otherwise indicated. Market grower Jason Kafka of Parkman, ME, observed that deeply netted muskmelons have better flavor than those without full netting. Melons produce highest sugars when daytime temperatures exceed 80˚ and night temperatures are 60–75˚.

1/16 oz packet, about 60 seeds, sows 20 hills. 1oz=about 960 seeds. Minimum germination soil temperature 60˚, optimal range 75–95˚, optimal temperature 80˚, emergence takes 8 days at 68˚, only 4 days at 77˚.

908JO Jenny Lind OG (76 days) Believed to have been developed from a strain called Center originally from Armenia. Named for beloved soprano Jenny Lind (1820-1887), the Swedish Nightingale. This heirloom melon, contemporaneous with her early career, remained very popular in the New York, New Jersey, and Philadelphia area until after her death. In his 1902 catalog, famed seedsman Peter Henderson called it "the gem of the **muskmelons**, flavor unsurpassed by any." Vaughan's sold 1 lb. for 85 cents in 1904. Jenny has recently enjoyed renewed popularity in home gardens all over the country. Despite her sparse spindly vines, she is a prolific bearer of small heavily netted 1 lb. fruits that blush when they are ripe. Achieved a high Brix reading of 12.1 (12.1% sugar content) in Alice Percy's SARE-funded 2010 melon trials. Jenny may be unique among melons for having a turban on her blossom end, but tends to be too soft there for shipping. Her soft juicy lime-green interior flesh is so sweet and musky that it just might make you sing. IA-certified ②
A=1/16oz, $2.00 **B**=1/4oz, $6.00 **C**=1/2oz, $11.00 **D**=2oz, $40.00

916KA Oka (83 days) A star for trialer Heron Breen both in 2009 and 2010, outperforming many hybrids in both his greenhouse and fields, but a disappointment in 2011 when cool wet conditions in August and September kept Brix levels way down. Showing outstanding productivity most years, resilient and vigorous, it recovers from transplant shock and temperature fluctuations with aplomb. A cross between green-fleshed Montreal Market melon and bizarrely shaped but sweet Banana melon, Oka was bred around 1912 by Father Athanase at La Trappe, Quebec, and offered commercially by Joseph Breck & Sons of Boston in 1924. Once feared extinct, it was rediscovered on the St. Lawrence River island of Bizard. Its 2–5 lb. juicy luscious faintly aromatic fruits have provided some mighty good lunchtime dessert at our Annual Meetings. Vigorous healthy vines with large deep green leaves. Fruits slightly flattened—almost the cheese pumpkins of **muskmelons**. Cut stems when fruits are barely ripe rather than waiting for full slip. Let them sit inside a few days and ripen fully. Adapted to Montreal and Maine, venerable and delicious. May be prone to cracking in warmer climates. Resists BW. ②
A=1/16oz, $1.60 **B**=1/4oz, $5.00 **C**=1/2oz, $8.50 **D**=1oz, $16.00

Canoe Creek Colossal (85 days) Crop failure; *not available this year.*

925GO Golden Gopher OG (85 days) "Nothing can touch the Golden Gopher," says our trialer Donna Dyrek. I concur. Again at the taste test at our 2010 Annual Meeting, Gopher was by far the best. Its heavily ribbed fruits have deep deep orange flesh of incomparable eating quality. Achieved a Brix reading of 14 at Common Ground Fair Exhibition Hall, way ahead of any other **muskmelon** tested. Its Honeydew parentage helps account for its high sugar content as well as its resistance to F. Developed by the University of Minnesota in the 1930s, saved from probable extinction by Glenn Drowns, discovered and multiplied by our trialer Jeanne Griffin, and popularized by Jack Kertesz at the MOFGA alley-cropping demonstration garden. Called "Pop Open" melons because they sometimes split open when ripe. Hard to grow for market where PM is prevalent; very susceptible. OT-certified. ①
A=1/16oz, $1.60 **B**=1/4oz, $4.50 **C**=1/2oz, $7.50 **D**=1oz, $14.00

930PO Petit Gris de Rennes OG (85 days) As rewarding as it is challenging to grow, as delicious as it is visually unassuming, the little grey melon of Rennes rates as the champagne of French heirloom melons. First noted in the garden of the Bishop of Rennes nearly 400 years ago, now maintained and intensively managed by an artisan melon cooperative in France. "Sweet, lush, juicy, aromatic, will convert anyone away from bland muskmelons. Customers fought over them," raved one blogger. Upon taking a stunned bite, Roberta asked instantly, "Who is THAT melon?" You will go to great lengths for this melon: its dense peachy-orange flesh is that good. Neither early, high-yielding nor easy to tell when ripe, this true **cantaloupe** without netting ripens very slowly, a golden-tan color spreading from the blossom and becoming pebbly. Cut from the vine when the blossom end is soft and the color has changed halfway up the fruit. Then allow to sit until you can no longer resist its alluring perfume. Some will split and must be consumed immediately and some will be duds. Overripe, though sometimes still good, if left to slip. A delicacy, not a production melon. Fruits average 1 1/2–2 lb, variable in size and shape, ripening over a long period. Loves great soil, full sun, black or green IRT plastic, row cover and irrigation. Without such TLC, will probably give only one fruit per plant. In a year of low Brix, had the highest readings in Alice Percy's trial, averaging 9 1/2. Very old, but **NEW!** to our catalog. IA-certified. ②

A=1/16oz, $1.80 **B**=1/4oz, $5.50 **C**=1/2oz, $9.00 **D**=1oz, $16.00

940DL Delicious 51 (88 days) Some consider Delicious 51 to be the best widely available open-pollinated **muskmelon** for cold climates. One trialer compared its flavor to fine sorbet. Distinctively ribbed with sparse netting, its sweet 3 lb. fruits turn yellow and are sometimes soft when ripe. Dark orange interiors with sweet juicy aromatic flesh. Received 11 Brix reading at 2005 Oregon State University trials. Developed by Dr. Henry Munger of Cornell University in 1953. Resists F, PM. ②

A=1/16oz, $1.10 **B**=1/4oz, $2.00 **C**=1/2oz, $3.50 **D**=1lb, $23.00

943FO Prescott Fond Blanc OG (88 days) *Fond Blanc* translates to 'white bottom.' Don't be fooled by the outer appearance of this wrinkled bumpy warted thick-skinned puffy-looking grey-green rock melon! (One author describes the skin as "tough as rhinoceros hide.") Looks like spumoni on the inside, the layers of green and yellow rind giving way to deep orange flesh in the center. Then oo-la-la! Sniff its rich bouquet and bite into the juicy melting dense savory flesh. As Prescott's 3–5 lb. true **cantaloupes** ripen they develop a yellow blush and a floral redolence, and finally slip off the vine with light pressure when fully ripe. Bring them in and let them sit for a week, then enjoy! Fruits ripen variably, vines keep producing, averaging about four melons per hill. **BACK!** IA-certified. ②

A=1/16oz, $1.80 **B**=1/4oz, $5.50 **C**=1/2oz, $9.50 **D**=1oz, $18.00

Most Years You *Can* Vine-Ripen Melons In Maine

Melons are a tender crop with a high nitrogen requirement. They love heat, cannot stand frost, and may be damaged by night temperatures below 40˚. Though they require some extra fussing, the results are sure worthwhile!

✺ Note days to maturity and select varieties that will ripen in your climate. Halona, Blacktail Mountain, Petite Yellow and Peace are surest bets.

✺ Start indoors in early May (later if the spring is slow to warm) in plastic or peat pots, 2 or 3 seeds to a pot. Melons resent transplanting but will take if their roots are not disturbed.

✺ Prepare hills in advance with liberal amounts of well-rotted manure or compost. Don't place melons next to vigorous crawling plants like cucumbers, gourds or winter squash.

✺ A cold start can permanently stunt growth, so wait for a warm spell after all danger of frost to transplant, usually between June 1st and 20th. Water heavily and, if soil is dry, place a temporary hay mulch around plants until a soaking rain comes.

✺ Melons are much more sensitive than squashes so use low tunnels with floating row covers that do not abrade plants. If you have sandy soil, check daily and irrigate when needed.

✺ Use blue, black or clear plastic mulch between plants.

✺ Use a foliar feeding program to speed ripening.

✺ Remove row covers before buds open. Replace them when you don't desire any more fruit to set.

✺ To reduce rot loss, rotate ripening melons occasionally. To reduce mouse damage, place ripening melons on bricks.

✺ Inspect your patch *daily* at ripening time. Check fruits for aroma and color and *pull gently* on those that appear to be ripe. Most muskmelons are ripe when the pressure causes them to slip from the vine. Galia types are ripe when they blush yellow well before full slip. For Petit Gris de Rennes, see above; for honeydews, p. 30. For watermelons, thumping should produce a low, hollow sound. Spread thumb and forefinger and press hard on fruit. If you feel any give, watermelon is ripe.

✺ Enjoy an incomparable taste treat!

945RF Rocky Ford Green Flesh (90 days) A few years ago we lined up several green **muskmelons** in the same class, including Green Nutmeg, Eden's Gem, Netted Gem and Rocky Ford to go melono a melono for top honors. Rocky was the clear taste winner and replaced its grandfather Green Nutmeg. Developed by J.W. Eastwood in 1881 and named after the town which was the heart of the thriving Colorado melon industry and still is the headquarters of our favorite cucurbit supplier, Hollar. Rocky's vigorous vines produce 3–4 round heavily netted aromatic 2 lb. fruits per plant. Fruits are ripe when they slip off. Their fine-grained juicy sweet green spicy flesh has a pleasant smooth texture with a lingering muskiness. A good home-garden variety and short-distance shipper. ②

A=1/16oz, $1.10 **B**=1/4oz, $2.00 **C**=1/2oz, $3.50 **D**=1lb, $23.00

Schoon's Hardshell (94 days) Dropped for late ripening and slow sales. *Not available in 2012.*

Open-pollinated CRENSHAW MELON

950SF Sweet Freckles ECO (89 days) Our first Crenshaw since we last offered Burpee's Early in 2005. Heron prefers it because it is earlier, smaller and more flavorful than Burpee's, likening its flavor to that of an Indian dessert. Pear-shaped Freckles ripens from green to cream-yellow or light peach with dark greenish-orange splotches that give it its name. Harvest at full slip and allow to finish ripening indoors until its fragrance calls. Enjoy the creamy texture and perfumed flavor of its light peachy-beige flesh. Fruits averaged 2.2 lb. topping out at 3.25. Can grow larger in warmer climates. Requires green or black plastic and row covers to approach its potential yield of 4 fruits/plant in our zone. Susceptible to PM; do not set out adjacent to other squash. **NEW!** ①

A=1/16oz, $1.80 **B**=1/4oz, $6.00

Open-pollinated WATERMELON

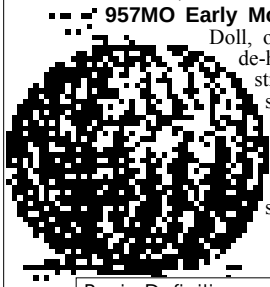
Citrullus lanatus

Agricultural Research Service scientists have discovered that watermelon, known to contain large amounts of the antioxidant lycopene, is also an excellent source of the amino acid citrulline that is important for wound healing, cell division and removing toxins from the body. More than 4 billion pounds of watermelons are produced annually in the United States.

1/16 oz packet, about 40 seeds, sows 14 hills. 1 oz=about 670 seeds. Minimum germination temperature 60˚, optimal range 75–95˚, optimal temp. 90˚, emergence takes 12 days at 68˚, 5 days at 77˚, only 17% normal seedlings at 59˚, 94% at 68˚.

953BM Blacktail Mountain (71 days) Cucurbit aficionado and eminent seedsman Glenn Drowns is among the few who can point to any enduring accomplishments at age 17. That's when he took on his 4-year project to breed a watermelon that would withstand the rigors of his mountainous northern Idaho climate and ripen before first frost despite summer nighttime temperatures that averaged 43°. No wonder Blacktail Mountain is the earliest variety extant, among the hardiest, best adapted to a variety of conditions, and even stores after harvest as long as any. Thanks to Adam Tomash and June Zellers who shared their Exhibition Hall specimens with our taste testers for bringing success to my long campaign to get Drowns' opus into our catalog. Tomash reports harvesting nine fruits averaging 6–7 lb from his three plants. Though these were not transplanted out until July 3, he brought in his first and largest ripe fruit (9 1/2 lb.) as early as Sept. 9. Fruits are dark green, almost black, with faint stripes, flesh orange red like a Sugar Baby only with a cleaner more pleasing texture, very sweet, juicy and crunchy. Drowns didn't rest on his laurels, he now maintains Sand Hill Preservation Center in Iowa, his catalog a treasure trove of rare seed and poultry varieties. **NEW!** ②

A=1/16oz, $2.30 **B**=1/4oz, $9.00 **C**=1/2oz, $14.00 **D**=1oz, $26.00



957MO Early Moonbeam OG (78 days) A selection from Yellow Doll, one of breeder Alan Kapuler's notable successes in de-hybridizing hybrids. Kapuler retained most of Doll's strengths including earliness, icebox size (5–8 lb.), sweet yellow flesh, and colorful skin of dark green stripes on a greenish-white background, while sacrificing only a scintilla of uniformity and flavor. Brix reading of 11 at Washington State University trials. Moonbeam is a stabilized variety so you can save your own seed. **BACK!** Stellar NOP-certified. ①

A=1/16oz, $1.60 **B**=1/4oz, $4.50
C=1/2oz, $7.50 **D**=1oz, $14.00

Basic Definitions

Open-pollinated varieties will grow true to type when randomly mated within their own variety. Provided your plants have been properly isolated from different varieties of the same species, seed saved from these plants will breed true.

Hybrid varieties are those produced from the crossing of two different inbred lines. *Seed saved from hybrid varieties will not breed true in the next generation.*

Amongst **open-pollinated** plants, **self-pollinated** (selfers) usually reproduce by using their own pollen. **Crossers** usually reproduce through the transfer of pollen from one plant to a different plant of the same species.

Botanical nomenclature goes from the general to the specific. Plants are classified into kinds by **genus**, **species**, and **variety**. In *Cucurbita pepo* Sweet Dumpling, *Cucurbita* is the genus, *pepo* is the species and Sweet Dumpling is the variety.

963SO Sugar Baby OG (80 days) The first of its genre and still the standard northern icebox watermelon. Among the earliest in its class, Sugar Baby grows 8–10 lb. fruits, dark green outside and deep red inside. Discovered in a field of picnic watermelons by M. Hardin of Geary, OK, in 1955 and introduced by the Woodside Seed Co. Although its 10 Brix reading is considered a little low and its flesh quality is grainier than the pricey mini-melons featured in supermarkets, still prized by those who prefer their watermelons open-pollinated and of modest size. CCOF-certified. ③

A=1/16oz, $1.10 **B**=1/4oz, $2.20 **C**=1/2oz, $4.00 **D**=1lb, $48.00

968CS Cream of Saskatchewan (80 days) Those who partook of the Cream during my Sunday table walk at the 2010 CGCF Exhibition Hall experienced the full potential of this variety's sweet bliss when grown in a good season. "Of all the cool climate melons I've grown in Oregon, Maine and Wisconsin, this takes the cake, not just sweet but real character and flavor." With his background in cucurbits, plant breeder John Navazio knows a good melon when he tastes one. He gave me my first taste more than a decade ago and I've prized these sweet juicy melons with cream-colored flesh and abundant seeds ever since. Sweet and cooling on a hot day, these round 6–10 lb. fruits are light green with dark stripes with thin brittle skin prone to split. Heirloom said to have originated in the Ukraine, brought to Saskatchewan by immigrants early in the 20th century. ②

A=1/16oz, $1.60 **B**=1/4oz, $5.00 **C**=1/2oz, $8.50 **D**=1oz, $16.00

974DO Sweet Dakota Rose OG (82 days) 30 years ago David Podoll (of Dakota Dessert Squash fame, see # **1630**) crossed the small early maturing Early Canada with the enormous late maturing Black Diamond to create this intermediate 8–12 lb. delight. A star in my 2007 trials, it matured early and produced 2–3 fruits per plant. One of the sweetest open-pollinated watermelons we know, it has a thin skin, few seeds and stores longer than most others. A strong watermelon flavor complements its sugar rush. ICS-certified. ①

A=1/16oz, $1.90 **B**=1/4oz, $5.50 **C**=1/2oz, $10.00 **D**=2oz, $34.00

980QZ Quetzali (85 days) An outstanding open-pollinated red watermelon, sweet (tested 10.3% sugars at WSU trials) with some substance. Ripens 9–12 lb. fruits with dark-green skin splotched with lime-green sponge prints. Even more attractive on the inside where the dense pink flesh is almost seedless! *Caution: Requires a sharp knife, strong wrist and sure stroke to cut open its skin.* Resists ANTH1. We cannot ship to South Carolina. PVP. ⑤

A=1/16oz, $1.60 **B**=1/4oz, $4.00 **C**=1/2oz, $6.50 **D**=2oz, $20.00

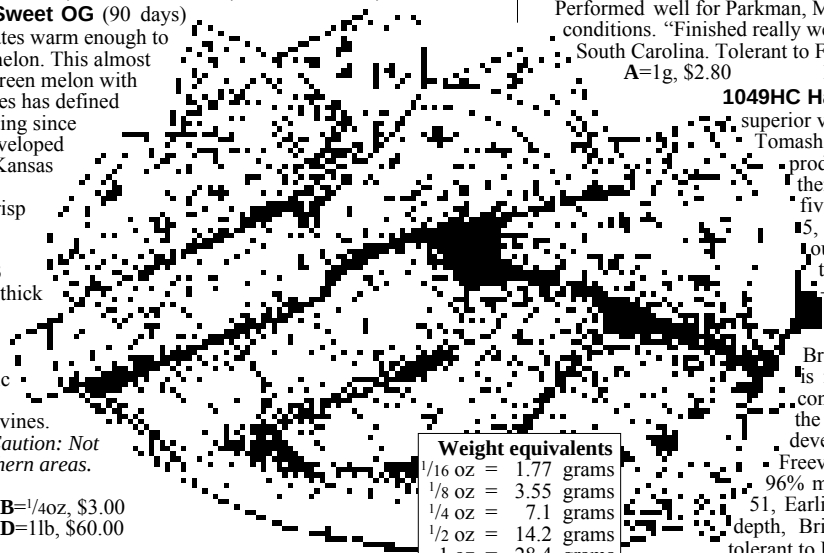
984SW Sunsweet (85 days) Though it loves warm locales, Sunsweet is adapted almost anywhere. Our melon trialers in central Maine have harvested two 20 lb. fruits per plant. They report it outproduces hybrid Sweet Favorite and is earlier and bigger than hybrid Sangria. We recommend this large oval open-pollinated watermelon for glorious red sweet juicy delectable treats. Skin dark green with broken light green stripes. Resistant to ANTH and F. No sales to South Carolina. PVP. ⑤

A=1/16oz, $1.60 **B**=1/4oz, $4.00 **C**=1/2oz, $6.50 **D**=2oz, $20.00

986VR Verona (86 days) We found this rare large red oblong watermelon through Seeds of Change. Verona was introduced in 1965 in Mississippi. One of its parents is the famous Charleston Gray. Considered the earliest and best-tasting of the Black Diamond types, Verona pumps out 15–20 lb. fruits with thin but tough smooth dark green skins and attractive firm red flesh. Sweet and tasty, the best-flavored open-pollinated watermelon I've ever eaten, Verona had high yields in the OSU trials and got raves at the staff taste test. Well adapted to cool climates, has produced impressively even as far north as Starks, ME. Tolerant to ANTH, F. ②

A=1/16oz, $1.20 **B**=1/4oz, $2.50 **C**=1/2oz, $4.80 **D**=2oz, $16.00

989CO Crimson Sweet OG (90 days) For growers in climates warm enough to grow a 25 lb. watermelon. This almost round 10x12" light green melon with bold dark green stripes has defined good watermelon eating since 1964 when it was developed by Dr. C.V. Hall of Kansas State University. Noteworthy for its crisp dark red very sweet flesh. Tolerance to ANTH1 and ANTH3 and F1 and F2 and a thick skin suitable for shipping make it a commercial favorite in the Middle Atlantic states and the Southeast. Vigorous vines. 1978 AAS winner. *Caution: Not adapted to cold northern areas.* CCOF-certified. ②③



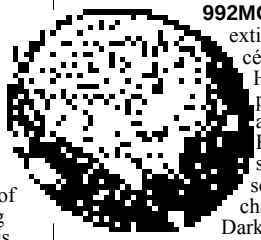
A=1/16oz, $1.20 **B**=1/4oz, $3.00
C=1/2oz, $5.50 **D**=1lb, $60.00

"Affordable heirlooms and great variety. Can't beat it!"
—Crystal Means, Peru, IN

Weight equivalents	
1/16 oz =	1.77 grams
1/8 oz =	3.55 grams
1/4 oz =	7.1 grams
1/2 oz =	14.2 grams
1 oz =	28.4 grams
4 oz =	113.5 grams
1 lb =	453.6 grams
2.2 lb =	1000 grams

990GL Orangeglo (90 days) A favorite of Glenn Drowns. No other melon we know is so orange. Like us, Drowns enjoys convincing people to try new things. Orangeglo was one of his big triumphs at farmers market. When he took them for the first time, some folks even refused his free samples. The next week people were waiting in line. Not the sweetest of our melons, Orangeglo nevertheless may be the most juicy and refreshing. One precocious 9-year-old called it "watermelon and cantaloupe all in one," crisp tender bright orange flesh with an almost tropical flavor. Well adapted to the Northeast and every bit as good as Drowns promised, the striped oblong melons average 10 lb. and often achieve 15 lb. Some in 2010 were huge and even topped 20 lb. Let them stay in the field an extra few days when the stem is drying because they reach full sweetness only when completely ripe. Large, plentiful seeds. ②

A=1/16oz, $1.90 **B**=1/4oz, $5.50 **C**=1/2oz, $10.00 **D**=1oz, $18.00



992MO Moon and Stars OG (100 days) Once feared extinct, this now-famous unique watermelon became a cause célèbre for the Seed Savers Exchange. Released by Peter Henderson & Co. as Sun, Moon and Stars in 1926, it was popular in the '30s before fading into obscurity for almost fifty years. Seed Savers Exchange co-founder Kent Whealy found it again in 1981 after a four-year search and his son Aaron supplied us with our original seed. Because it needs a lot of heat to set fruit, it poses a challenge worthy of the Maine melon-grower's mettle. Dark green skin has beautiful yellow spots which range in size from little peas (the stars) to a silver dollar or larger (the moon). Spotted foliage, actually a product of a virus found in the breeding lines, looks unhealthy to the uninitiated. Sweet somewhat grainy pink flesh. CCOF-certified. ③

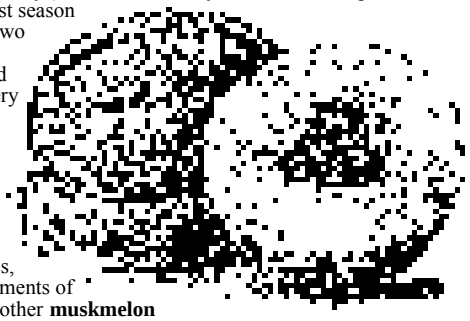
A=1/16oz, $1.60 **B**=1/4oz, $5.00 **C**=1/2oz, $9.00 **D**=2oz, $25.00

HYBRID MELONS

Hybrid CANTALOUPE & MUSKMELON *C. m.*

1 gram packet, about 20 seeds, sows 7 hills.

1035HL Halona (79 days) Trialer Donna Dyrek of Loon Song Farm opened her 2008 harvest season with Halona, slipping two off the vine on Sept. 5. Halona has it all—good size, earliness, thick very sweet orange flesh and dependability. The 6" oval fruits averaging 4 lb. are laced with heavy netting. They boast small seed cavities and extraordinary sweetness, reaching Brix measurements of 14–15, surpassing any other **muskmelon** we offer. Tolerant to some F strains, resistant to PM. ②



A=1g, $1.90 **B**=3g, $5.50 **C**=15g, $25.00

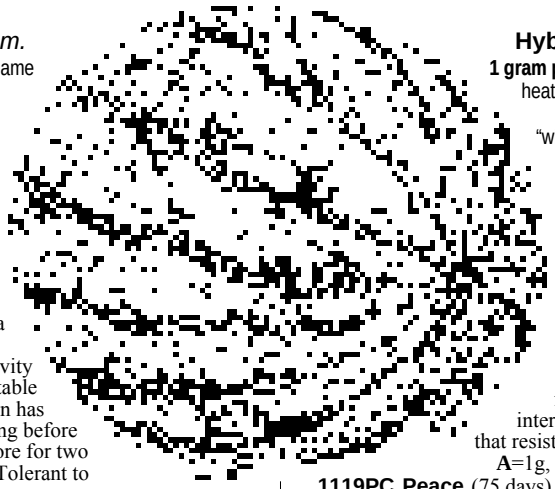
1046TH Athena (80 days) This **muskmelon** ripens early with nice orange interior color, good sweetness and not a hint of muskiness. Oval-round well-netted lightly ribbed fruits average 2 1/2–4 lb. An excellent shipper, recommended for commercial growers. 11.0 Brix at 2005 OSU trials. Second-best yielder among 10 melons in 2002 University of Maine trial. Performed well for Parkman, ME, market grower Jason Kafka in drought conditions. "Finished really well with few culls," he reported. No sales to South Carolina. Tolerant to F0,1,2 and PM1,2. ⑤

A=1g, $2.80 **B**=3g, $8.00 **C**=15g, $36.00

1049HC Hannah's Choice (87 days) Rated "clearly a superior variety" by experienced melon growers Adam Tomash and June Zellers of West Gardiner, ME, who produced 22 fruits from 2 hills in 2007, 20 of them marketable. I agree. In Colrain, MA, my five fruits maturing between Aug. 25 and Sept. 5, 2010, were marketable and delicious. Nikos, our trials manager, likens its flavor to the tropical fruit cherimoya "custard apple" —smooth, perfumy, juicy with syrupy sweetness. The 6 1/2 x 5 1/2" large netted oval **muskmelons** average 3–5 lb. with a high Brix rating of 13. As stunning on the inside as it is imposing on the outside, its rich green rind contrasts with the deep orange flesh. Kudos to the Cornell University breeding program for developing this gourmet melon. At trials in both Freeville and Jamesport, NY, it had an astonishing 96% marketable fruits by weight besting Delicious 51, Earliqueen, Athena and Burpee Hybrid in color, depth, Brix and over-all quality. Resistant to PM, tolerant to F2, ZYMV, PRSV, WMV. ②

A=1g, $2.40 **B**=3g, $6.50 **C**=15g, $32.00

Hybrid GALIA-TYPE MELON *C. m.*



1 gram packet, about 20 seeds, sows 7 hills. The name Galia is the feminine form of the Israeli name *Gal* (meaning wave). Developed in Israel around 1970 by breeder Zvi Karchi, Galias feature smooth sweet lime-green flesh with a tropical taste overtone. Typically the fruits have corky netting but no ribbing. Pull from the vine when the skin blushes yellow.

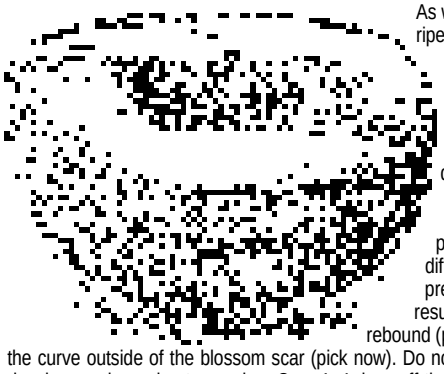
1055PP Passport (77 days) Heir to the University of New Hampshire's famous breeding program, Dr. Brent Loy developed this delicious green-fleshed **cantaloupe** that graced Johnny's 1991 catalog cover. Ripens more than a week earlier than Rocky Sweet with a smooth texture. Color ranges from whitish-green near cavity to darker green towards rind, with a subtle delectable taste. For maximum sweetness, harvest when skin has turned yellow. If cool wet weather causes cracking before full ripening, harvest at first yellow blush and store for two or three days. *This is the last year we will offer.* Tolerant to ANTH and GSB. ②

A=1g, $1.40 **B**=3g, $4.00

1059AO Arava OG (80 days) Several years ago, during a spring trip to Israel, I visited Genesis Seeds, the producers of this luscious green-fleshed melt-in-your-mouth melon that is named for the long valley that traverses much of the desolate Negev Desert in southern Israel. Though it is hard to believe that anything will grow in such a place, these Arava melons are the signature Israeli variety found in all the markets. A necessity there at the edge of the desert, where stepping outside mid-morning in April feels like entering a blast furnace. Unsurprisingly, I developed quite a taste for these sweet refreshing fragrant **cantaloupes.** Smooth, no ridges, lightly netted, blemish-free and uniform, averaging about 3 lb. A good yielder, even in cool conditions, ripening 3–4 fruits per plant. Resistant to PM. AGRIOR-certified. ③

A=1g, $1.50 **B**=3g, $4.00 **C**=15g, $15.00

Hybrid HONEYDEW *C. m.*



As with watermelons, discerning ripeness in honeydews is an art. At least two or three of the following signs should align before you cut fruit from the vine: 1) Fruits are free of fuzz or minute hairs that denote immaturity. 2) As with watermelons, stems dry at tendrils. 3) Fruits assume proper coloration (different for different varieties). 4) Light firm pressure applied to fruit bottom results in a slight give or rubbery rebound (pick soon). Give extends into the curve outside of the blossom scar (pick now). Do not wait for full slip—fruits will develop cracks and get over-ripe. Cure 1–4 days off the vine for best flavor. On the table develops a very subtle sweet smell of perfumed honey indicative of melting juicy full-flavored flesh.

1091HN Orange Honey (78 days) This honey of a melon from China fills our need for a honeydew that will mature in much of our sales area. These oval-round melons whose yellow skins turn full bright orange at ripeness average 3 lb, although they can get bigger in a good year. Not all ripen in Maine, but the plants are very productive, and excel in good years and/or warmer climes. Our trialer Heron Breen describes their light orange flesh as crunchy crisp with an "orange popsicle flavor not frozen." Plenty sweet and satisfying right down to the rind. ③

A=1g, $1.50 **B**=3g, $4.20 **C**=15g, $16.00

1093WH White Honey (80 days) Sniffing melons again? White Honey's addictive perfume will encourage this harmless and legal habit. The pearly, almost translucent flesh of these juicy melons has an attractive sweetness with a slight floral undertone. Heron's earliest and most productive melon in 2010. Under row cover and with both black plastic and irrigation, the harvest began August 15, two weeks earlier than during the cold 2009 summer. The oblong/oval melons average only 2–2 1/2 lb, but Heron harvested an average of 5–8 ripe fruits per plant. The fruits are ripe when the skin turns from white to deep ivory. They keep well for at least five days off the vine. ③

A=1g, $1.50 **B**=3g, $4.20 **C**=15g, $16.00

1095YH Yellow Honey (85 days) Quite unlike any other Maine-grown melon I've tasted, this Honey has hints of an exotic fruit combination floating just beneath the surface, with a smooth soft texture. "Kick ass love it" was one taste tester's succinct comment. Bright warm-yellow skins with juicy pearly white flesh. Using black plastic, row covers and irrigation (all highly recommended), Heron got a yield of 4–6 ripe 3–4 lb. rounded fruit per plant. Definitely worth the extra effort. ③

A=1g, $1.50 **B**=3g, $4.20 **C**=15g, $16.00

Hybrid WATERMELON *Citrullus lanatus*

1 gram packet, about 20 seeds, sows 7 hills. With its wicked heat, 2010 was a great year for growing watermelons. One beneficiary, Maine market grower Jason Kafka, raved, "when watermelons come well, it is wonderful." Not so in 2011, where a scant four fruits graced the CGCF Exhibition Hall.

1114PY Petite Yellow (75 days) Petite Yellow is our choice to compete with the Bambino and PureHeart minimelons now all the rage in supermarkets. Kafka praises it for its "outstanding shape and size from grower to purchaser…they pack into a box remarkably well." Little more than half the size of Peace, these 4–5 lb. yellow-fleshed cuties make perfect ready-to-go one-meal melons, sweet, juicy, with flavor and texture to please and very few seeds to interfere. Commercial growers also like its tough skin that resists cracking and permits long-distance shipping. ③

A=1g, $1.80 **B**=3g, $5.20 **C**=15g, $25.00

1119PC Peace (75 days) "I gave Peace a chance and was rewarded with loads of sweet little melons," wrote Janine Welsby of Wellsville, OH. Coming in around 8 lb, Peace surpasses Yellow Doll in flavor, texture and sweetness. Its yellow flesh has that kind of drizzle-down-your chin juiciness that thoroughly satisfies on a hot humid late-summer day. ③

A=1g, $1.90 **B**=3g, $5.50 **C**=15g, $25.00

1122GF Gold Flower (78 days) "So early, so sweet, so good," lauds trialer Heron. He picked his first ripe fruit in 2010 on Aug. 6, a dozen days earlier than 2009. From mainland China, these 7x14" torpedo-shaped melons carry a payload of rich sweet flavor as their interior flesh ripens from yellow to orange. Thin dark green skins with black snakeskin markings resemble a dwarfed Giant Rattlesnake melon. Sets 4-6 fruits per plant, best picked before the tendrils totally wither, stored in a cool room for 24 hours before marketing, or 36–48 hours before eating. So early and productive, could benefit from a second succession planting. ③

A=1g, $1.80 **B**=3g, $5.20 **C**=15g, $25.00

1168DS Dark Star (83 days) A worthy replacement for Seminis/ Monsanto's Jade Star with larger size, darker red interior flesh and substantially better flavor! A real milestone because Jade was long my champion hybrid watermelon and hard to let go. Dark's high-yielding dark glossy round 10–15 lb. fruits feature crisp, bright, juicy flesh sweet right down to the rind and small, black, unobtrusive seeds. Donna Dyrek's first fruit ripened Sept. 1 in 2010. New in 2011, Dark Star is the best watermelon we've found in years. ②

A=1g, $1.80 **B**=3g, $4.50 **C**=15g, $18.00

1176SF Sweet Favorite (86 days) 1978 AAS from Sakata. One of the best oblong watermelons for the North. Consistently produces 10–13 lb. fruits with sweet bright red flesh. Green skin with dark stripes. Welsby harvested 12 melons from four plants, most around 15 lb., but three of 25 lb. in 2010, "best watermelon year in a long time." "So sweet and juicy," she raved. Tolerant to ANTH and F. ⑤

A=1g, $1.80 **B**=3g, $5.00 **C**=15g, $22.00

1188SG Sangria (88 days) The sweetest (12–14% sugars), juiciest watermelon in our trials. These elongated ovals average 10–12 lb. with dark green skin broken by light green stripes. Bright refined red flesh will satisfy the most avid sugar seekers. Sangria, the first hybrid Allsweet type ever developed, has been a big hit on the market. Cannot ship to South Carolina. Tolerant to some races of ANTH and F. *Caution: May not ripen in northernmost areas with insufficient heat to grow big watermelons.* ⑤

A=1g, $2.40 **B**=3g, $6.50 **C**=15g, $32.00

…I have been on a journey of husbandry. I went primarily to see… conditions in the drought states; to see how effectively Federal and local authorities are taking care of pressing problems of relief and also how they are to work together to defend the people of this country against the effects of future droughts.…

…I saw drought devastation in nine states. I talked with families who had lost their wheat crop, lost their corn crop, lost their livestock, lost the water in their well, lost their garden and come through to the end of the summer without one dollar of cash resources, facing a winter without feed or food—facing a planting season without seed to put in the ground.…

…I shall never forget the fields of wheat so blasted by heat that they cannot be harvested. I shall never forget field after field of corn stunted, earless and stripped of leaves, for what the sun left the grasshoppers took. I saw brown pastures which would not keep a cow on fifty acres.…

[continued on the next page]

CUCUMBERS *Cucumis sativus*

1/16 oz packet sows 11 ft, 1 oz about 180 ft. 1/16 oz packet avg. 65 seeds. Very tender, will not survive frost. Sow 2" apart in rows 3' apart or 6 per mound in hills 4' apart thinning to 3 best plants. Combat striped cucumber beetles by handpicking early AM when the dew makes them sluggish, or use floating row covers, removing when cukes flower. Pick frequently for best production.

Anne Elder reminds us that cucumbers turn bitter when they get thirsty. She turns on the drip line each day after her CSA picks.

Using compost in conjunction with row covers (rather than either alone) increased cucumber yields at the University of Michigan.

Possibly the most ancient of all vegetables. Cucumber seeds found in the Spirit Cave along the Burma/Thailand border in 1970 carbon-dated back nearly 12,000 years.

Parthenocarpic varieties (#**1239**, #**1392**) can set fruit without being pollinated, an advantage in cold cloudy summers.

Minimum germination temperature 60˚, optimal range 65–95˚, optimal temperature 90˚, emergence takes 13 days at 59˚, 6 days at 68˚, 4 days at 77˚.

PICKLING

1222DB de Bourbonne (50 days) This open-pollinated variety is used to make the tiny sour pickles featured in French cuisine. Pick the fruits when they are finger sized for delicious cornichons, or allow them to grow to normal size for crisp bread 'n' butters. De Bourbonne will challenge you to keep it picked. You won't need gloves because fruits are not very spiny. For pickles only; most will find too bitter for eating out of hand once the fruits size up. ②

A=1/16oz, $1.20 **B**=1/4oz, $2.20 **C**=1/2oz, $3.60 **D**=1oz, $7.00
E=4oz, $20.00 **K**=1lb, $62.00

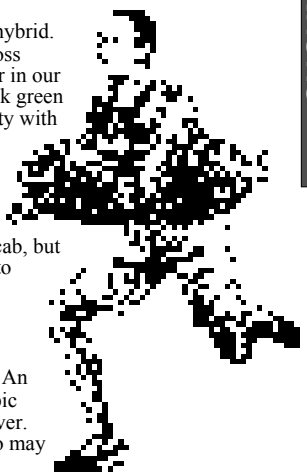
1226NL National (52 days) Open-pollinated. In 1924, aiming to create a variety suitable for both small pickles and dills, the National Pickle Packers Association began a collaboration with the Michigan Agricultural Experiment Station that resulted in National's 1929 introduction. Not quite as early as Northern Pickler, but tending to hold quality over a longer season, the firm black-spined dark green fruits are usually quite sweet, rarely bitter. Plants are vigorous dependable producers. Resists CMV and scab. ②

A=1/16oz, 90¢ **B**=1/4oz, $1.50 **C**=1/2oz, $2.50 **D**=1oz, $4.00
E=4oz, $10.00 **K**=1lb, $25.00

1232CS Calypso (52 days) Heavy-yielding gynoecious hybrid developed by North Carolina State. Fruits medium-dark green with white spines. In a trial of 7 pickling varieties at Highmoor Farm, Calypso had the highest early yield. Using IRT mulch and irrigation, Adam Tomash and June Zellers grew 1,250 saleable fruits in 2010 from just 6 hills of 4 plants each. During peak production they harvested an average of 60 cukes per day. Tolerant to ANTH, ALS, CMV, DM, PM, resistant to scab.②

A=1/16oz, $1.00 **B**=1/4oz, $1.80 **C**=1/2oz, $3.00 **D**=1oz, $5.00
E=4oz, $14.00 **K**=1lb, $38.00

1234CC Cross Country (52 days) F-1 hybrid. Named for its widespread adaptability, Cross Country goes the distance. The best pickler in our trials, it bears abundant blocky straight dark green white-spined fruit of uniformly good quality with very small seed cavities. Our trialer described its sweet taste as "crunchy and cool." Had good yields (5.5 lb. per plant), appearance, and long uniform fruit in Highmoor Farm trial. Has been highly rated in brine tests. Resistant to scab, but susceptible in our trial to BW. Resistant to ANTH, ALS, PM and DM. ⑤



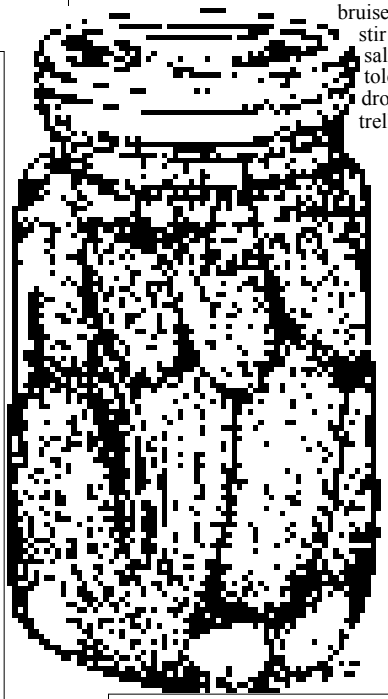
A=1/16oz, $1.40 **B**=1/4oz, $2.50
C=1/2oz, $4.80 **D**=1oz, $9.00
E=4oz, $28.00 **K**=1lb, $88.00

1239LO Little Leaf H-19 OG (60 days) An open-pollinated white-spined parthenocarpic cucumber that can be grown under row cover. Little Leaf sets fruit without pollination, so may be left covered the entire season. Compact vines with smaller-than-normal leaves save space and make finding the cucumbers much easier. And despite the plants' emaciated appearance, there are a huge number of cukes to find. The plants seem to do well even under stress. The blocky fruits are a little smaller than what we were used to, but they serve a dual purpose, pickling well while also providing good fresh eating. Has become a big customer favorite. Bred in the Ozarks at the University of Arkansas and released in 1991. White spines. Resistant to ANTH, ALS, DM, CMV, PM, scab. PVP. SC-certified. ①

A=1/16oz, $1.60 **B**=1/4oz, $3.50 **C**=1/2oz, $6.00 **D**=1oz, $11.00
E=4oz, $36.00 **K**=1lb, $135.00

1243MG Mexican Sour Gherkin (65 days) *Melothria scabra* Open-pollinated. Also known as Cucamelon, *Sandía de ratón* (Mouse Watermelon in Spanish), and Preserving Cucumber in France. Native to Mexico and Central America and a staple in diets there since pre-Columbian times. We love the unusual, so when we saw these darlings on exhibit at Common Ground Fair in 2004, we found them irresistible. So did the judges who gave them a coveted Judges' Award. A rampant yet delicate scrambling vine covered with dozens of 1" green and white fruit that look like miniature watermelons but taste more like cucumbers with a crunchy texture and a slight sour zing as if they already had been pickled. Botanically, they are neither cucumber nor watermelon and won't cross with either. They don't bruise and they keep for a long time. Try them in stir fries, pickle them as gherkins, or add to salsas. Easy to grow, and fun! Slightly more tolerant of cold than cukes, and more drought-resistant. Benefits from a fence or trellis as vines can climb 10'. ②

A=0.2g, $2.20



…We have the option, in the case of families who need actual subsistence, of putting them on the dole or putting them to work. They do not want to go on the dole and they are one thousand percent right. We agree, therefore, that we must put them to work for a decent wage, and when we reach that decision we kill two birds with one stone, because these families will earn enough by working, not only to subsist themselves, but to buy food for their stock, and seed for next year's planting. Into this scheme of things there fit of course the government lending agencies which next year, as in the past, will help with production loans.…

…In accordance with that program literally thousands of ponds or small reservoirs have been built in order to supply water for stock and to lift the level of the underground water to protect wells from going dry. Thousands of wells have been drilled or deepened; community lakes have been created and irrigation projects are being pushed…

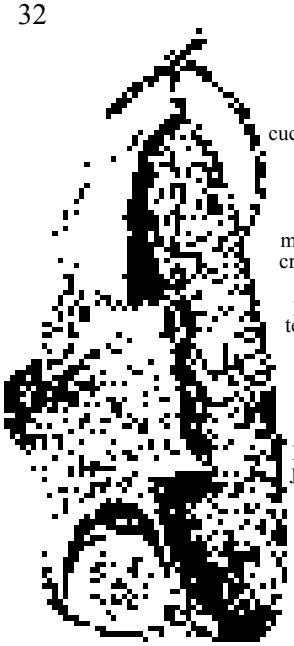
…Spending like this is not waste. It would spell future waste if we did not spend for such things now.…

…In the drought area people are not afraid to use new methods to meet changes in Nature, and to correct mistakes of the past. If overgrazing has injured range lands, they are willing to reduce the grazing. If certain wheat lands should be returned to pasture they are willing to cooperate. If trees should be planted as windbreaks or to stop erosion they will work with us. If terracing or summer fallowing or crop rotation is called for, they will carry them out. They stand ready to fit, and not to fight, the ways of Nature.…

…We are helping, and shall continue to help the farmer to do those things, through local soil conservation committees and other cooperative local, state and federal agencies of government.… Fireside Chat 9/6/36

Avoid disappointments!
Order Early! Many seed crops, especially of rare niche varieties, are short. Check our website **www.fedcoseeds.com** for up-to-date availability information.

Why don't you folks offer _____ ? (please fill in the blank)
Can't find your favorite variety? Please send us your suggestions.
If possible, please identify your past source for the varieties.



SLICING

1308PO Poona Kheera OG (60 days) Open-pollinated. Bored with American cucumbers and ready for something different? This emigré from India undergoes quite a metamorphosis, 4–5" fruits turning from cream color to golden yellow to russet brown, shaped almost like a potato as they mature. At each stage they remain extremely crisp, sweet, juicy, refreshing and bitter-free. Used in stir-fries, long-marinating dishes, pickles and chutneys. They keep their crisp texture and absorb sauce flavors in Thai and Indian food. Vines vigorous, disease resistant and heavy yielding. "Am gaining converts for Poona—they are always the first to produce, the last still standing, the most prolific and the best tasting," raves Karen Pratt of Mt. Valley Coop in Jacksonville, VT. CCOF-certified. ①
A=1/16oz, $1.50 **B**=1/4oz, $2.80
C=1/2oz, $5.00 **D**=1oz, $8.00
E=4oz, $28.00 **K**=1lb, $90.00

1311BO Boothby's Blonde OG (63 days) Open-pollinated. Maine, famous for Moody's Diner and Moxie, also boasts a less well-known heirloom cucumber, maintained for five generations by the Boothby family of Livermore. Boothby's short plump oval fruits average 3–4" and become yellower as they mature. Creamy exteriors with contrasting black spines and juicy refreshing interiors. Larger seed cavities than most cukes, but the seeds actually add to the mild sweet flavor that makes the fruits so good for eating out of hand. Boothby's usually lacks the bitter aftertaste so common in many of the other white cukes we've trialed. Has the "cool" texture uncommon in American cukes. Boothby's goodwill ambassador Will Bonsall passed it on both to Pinetree Seeds and to us. Seed grown in Maine. CCOF-certified. ①
A=0.5g, $1.00 **B**=2g, $2.50 **C**=4g, $4.00 **D**=16g, $12.00
E=64g, $28.00 **K**=1/2lb, $80.00

Marketmore 76 (63 days) Dr. Henry Munger's classic open-pollinated cucumber for the ages, long the leading slicing variety in the Northeast. We have sold more than 10,000 packets over the past two seasons. Dark green 8–8 1/2" fruits show good uniformity. Vines vigorous throughout season. Tolerant to CMV, DM, PM, resistant to scab.

1312MM Marketmore 76 ②
A=1/16oz, 90¢ **B**=1/4oz, $1.50 **C**=1/2oz, $2.50 **D**=1oz, $4.00
E=4oz, $8.00 **K**=1lb, $25.00

1313MO Marketmore 76 OG CCOF-certified. ②③
A=1/16oz, $1.10 **B**=1/4oz, $2.00 **C**=1/2oz, $3.50 **D**=1oz, $6.50
E=4oz, $13.00 **K**=1lb, $44.00

1328GL General Lee (66 days) F-1 hybrid. Although the Confederate general fell a little short, this General continues to conquer some Yankee gardeners and farmers. High yields of uniform straight dark-green white-spined 8–8 1/2" slicers don't peter out in the halcyon days of summer. Doesn't develop yellow "bellies" and retains that good Sweet Salad flavor. Along with Cross Country (# **1234**), the best of the cucumbers we've tested in recent years. Tolerant to scab, CMV, PM and DM. ⑤
A=1/16oz, $1.70 **B**=1/4oz, $4.00 **C**=1/2oz, $6.50 **D**=1oz, $12.00
E=4oz, $44.00 **K**=1lb, $160.00

1372LM Lemon (68 days) Open-pollinated. Would you buy a lemon from Fedco? A lot of people will buy this lemon beloved by salad chefs and backyard gardeners alike for its heavy yields of rounded 3" fruits shaped somewhat like lemons. Color evolves from pale greenish yellow (immature though preferred by some customers as most tender and least seedy) to lemon yellow (best eating stage for most) to golden yellow (full maturity and seed production).Very crisp and sweet; never gets bitter and one of the best for eating right out of the garden. Samuel Wilson of Mechanicsville, PA, introduced this lemon in his 1894 catalog, some years before Detroit started turning out some lemons you wouldn't buy. ②
A=1/16oz, 90¢ **B**=1/4oz, $1.50 **C**=1/2oz, $2.50
D=1oz, $4.00 **E**=4oz, $9.50 **K**=1lb, $30.00

1375RG Richmond Green Apple ECO (70 days) Open-pollinated. What's refreshing and juicy, lemon-shaped and comes from Australia? These hard-to-find heirloom cucumbers. I feasted on them in my 2004 trials and have grown them most years since. Beautiful lime-green, they get slightly larger than lemons with sweet mild flavor that really satisfies on a hot summer day. **BACK!** with a larger crop so available in more sizes. ②
A=1/16oz, $1.60 **B**=1/4oz, $3.50 **C**=1/2oz, $6.00
D=1oz, $10.00

BEIT-ALPHA TYPE

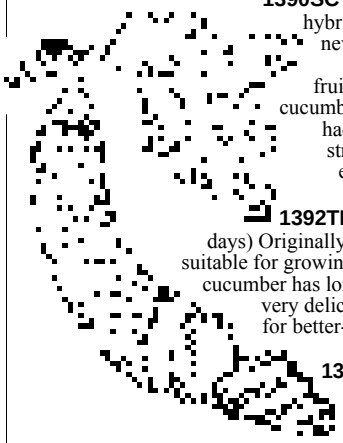
Descended from a vegetable that grows wild in the dry climate of the Middle East, the beit alpha was developed by breeders on an Israeli kibbutz. These small sweet-fleshed cucumbers were originally popular in the Mediterranean, spread to Europe and have now won converts in the States because they don't dehydrate easily, their thin skins don't require peeling, they are almost completely burpless and have a long shelf life.

1382SZ Super Zagross (54 days) Green smooth-skinned fruits refreshingly cool, enjoyably mild and almost completely free of the bitterness quite common in American slicers. An open-pollinated variety, Zagross does not bear as heavy early sets as the hybrid Amira. But it sustains its cropping power longer, so the cukes will keep coming as long as you keep harvesting. Recipient of many testimonials such as Anne Elder's: "Visiting children, who according to parents didn't eat cukes, picked and ate entire cucumbers in the field. Never an off flavor, never too seedy but perfectly crunchy juicy fresh. Will be succession planting Zagross this year.② **A**=1/16oz, $1.40 **B**=1/4oz, $2.50 **C**=1/2oz, $4.50 **D**=1oz, $8.00
E=4oz, $25.00 **K**=1lb, $75.00

LONG-FRUITED TYPES

Asian cukes are more resistant to CMV than other types.

1388PS Painted Serpent (55 days from transplant) *C. melo* var. *flexuosus* Bite into the snake that doesn't bite back. Also known as Armenian Cucumber or Snake Melon, native to Armenia and brought to Italy in the fifteenth century. William Woys Weaver says "this is one of the oldest of our heirlooms, yet one of the most neglected by our gardeners," often relegated to exhibition rather than *esculentus.* Yet its flavor surpasses that of cucumbers, excelling in salads and stir fries without bitterness or burps. Slender slightly fuzzy flexuous fruits delicately coil like a serpent with alternate light and dark green stripes. Culture like the melon it is, starting indoors in individual pots and transplanting into a low tunnel. Will grow up to 30" but best eaten at 8–18". Straighter if trellised. Never grew well on my Central Maine clay, but a prolific producer on my sandy Colrain, MA, soil. First ripe fruit was July 26 in 2010, later in 2011. ②
A=1/16oz, $1.10 **B**=1/4oz, $2.00 **C**=1/2oz, $3.50 **D**=1oz, $6.00
E=4oz, $15.00 **K**=1lb, $50.00



1390SC Shantung Suhyo Cross (60 days) F-1 hybrid. Produces a plethora of uniform 12–14" never-bitter sweet-tasting cukes. Even in dry conditions the vines keep making quality fruits that never develop shrunken necks. Our cucumbers were very gracefully curved, although had we trellised them, they would have been straight. Seed comes from Japan and is very expensive. Tolerant to DM, PM, CMV. ⑤
A=0.5g, $1.40 **B**=2g, $4.50

1392TE Telegraph Improved European (60 days) Originally developed for greenhouse production but suitable for growing outdoors, this open-pollinated European cucumber has long (10–14") slim smooth-skinned fruits of very delicate mild flavor, seldom bitter. Stake vines for better-quality straight cukes. Parthenocarpic. ②
A=1g, $1.40 **B**=4g, $4.20

1394SO Suhyo Long OG (61 days) Open-pollinated. Known for its sweet mild burpless flavor, this Asian cucumber grows up to 15" long with a curly shape if unsupported. For straighter fruit that packs better Jason Kafka grows these in his greenhouse in vertical hedges, stretching Trellis Plus netting (# **9071** in the OGS section) between conduits. According to Tom Vigue these make good dense pickling cukes if picked young enough. Sets well in heat. Resists PM. QCS-certified. ②
A=1g, $1.30 **B**=4g, $3.20 **C**=16g, $10.00 **D**=48g, $24.00

1396KO Shintokiwa OG/BD (62 days) Open-pollinated. Tom Vigue and Adam Tomash highly recommend this productive smooth-skinned long slender cucumber that first surfaced in the Turtle Tree catalog. Tomash considers it superior to the Suhyo cultivars with better uniformity, fewer defective bottoms and less tendency to disease. The 12–14" fruits are sweet, crisp and juicy without bitterness. For really straight fruit, Tomash trellises his cukes by making a 5' arch out of cattle panel, a welded wire material with big holes. Tomash and his partner June Zellers explained their system in an article that appeared in the *MOF&G* winter 2008-9 edition. For more information google Shintokiwa and click on "In Search of the Perfect Tomato Trellis." GOA-certified ① **NEW!**
A=1g, $1.60 **B**=4g, $4.50 **C**=16g, $12.50 **D**=48g, $30.00

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"You guys rock! (Is that a good thing to tell a New England farmer? We have enough in the soil already.)"
—Ayn Whytemare, Found Well Farm, Pembroke, NH

SUMMER SQUASH *Cucurbita pepo*

Tender, will not survive frost. Sow in hills 4 ft apart, 5 seeds/hill. Thin to 2–3 best plants. Pick squash when they are small for best flavor. Floating row covers can hasten maturity by 1 to 2 weeks. Male blossoms typically precede females by about a week. Females have a bulge at the base of the blossom, an early stage of the fruit forming. In early summer, a combination of cool, cloudy weather and a declining bee population may result in poor pollination causing low yields. Mites and colony collapse disorder have wiped out a high percentage of wild and domesticated honeybee colonies in the last 20 years, creating a real crisis for cucurbit growers.

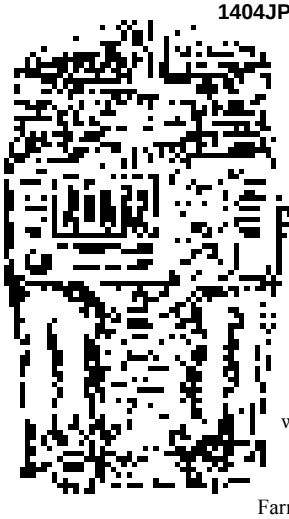
Minimum germination temperature 60˚, optimal temperature range 70–90˚, optimal temperature 85˚.

ZUCCHINI

1/8 oz packet sows 4–6 hills; 1 oz 40 hills. 160–240 seeds/oz. The term 'zucchini,' which means 'little squash' in Italian, was not in common parlance until the late '30s. Squash expert Amy Goldman, author of *The Compleat Squash* (ISBN 1-57965-251-4), traces the first true zucchini to 1901 in Milan, but vegetable marrows and cocozelles, now called zucchini, are considerably older.

1402EB Eight Ball (40 days) F-1 hybrid. Noted squash seed grower Hollar did not have to hire Minnesota Fats as their publicity director to win an AAS for Eight Ball and we're not hustling when we assert that Eight Ball deserved the award. Eight Ball has the sweetness and squash flavor previously missing from round zucchini. The plant's open bush habit should please both home and market growers. Its earliness might well give you your first ripe squash of the season. They'll keep coming, too, till they run your table! Yes, the attractive shiny speckled dark fruits are mature when they're just a little bigger than pool balls. Prefer multi-color cue balls? One customer reports oversized Eight Balls will turn orange and make great fall decorations. ②

A=1/8oz, $1.90 **B**=1/4oz, $3.60 **C**=1/2oz, $7.00 **D**=1oz, $13.00
E=4oz, $48.00 **K**=1lb, $170.00



1404JP Jackpot (42 days) F-1 hybrid from Hollar. Produces high yields of long medium-dark green slightly speckled fruits slightly ridged near the stem. In my first trial in 2002, I harvested 59 fruits from just two hills. Open plant habit features a long single-stem bush with few spines. Continuous production of firm 6 1/2" zukes, tender, mild and sweet. Take these to market and win the jackpot. ②

A=1/8oz, $1.50 **B**=1/4oz, $2.60
C=1/2oz, $4.50 **D**=1oz, $7.50
E=4oz, $22.00 **K**=1lb, $84.00

1406SB Spineless Beauty (46 days) F-1 hybrid. We have so many spineless politicians, why would we need a spineless zucchini? In zucchini, spinelessness is a virtue; when you harvest Spineless Beauty your hands will never itch. (And your palms won't itch either, unless you go into politics!) The 7 1/2x1 1/2" medium-dark green fruits are borne on open plants with spineless petioles. A standout in Sam Birch's and Highmoor Farm's summer squash trials. ⑤

A=1/8oz, $1.60 **B**=1/4oz, $2.80 **C**=1/2oz, $5.20 **D**=1oz, $10.00
E=4oz, $36.00 **K**=1lb, $125.00

1409RV Raven (48 days) F-1 hybrid. Our best-selling zucchini, nearly 50 lb. of seed per year. Raven sets the standard for dark zucchini. Its smooth-skinned glossy shapely greeny-black fruits make it the likely winner in the zucchini beauty contest, but its merits go more than skin deep. Research by Dr. John Navazio showed that Raven's dark pigmentation contains more of the antioxidant lutein than lighter-skinned varieties. Lutein helps preserve eyesight by lowering risks of developing cataracts and macular degeneration. Relatively early concentrated production so market growers can make succession plantings. ⑤

A=1/8oz, $1.90 **B**=1/4oz, $3.50 **C**=1/2oz, $6.00 **D**=1oz, $11.00
E=4oz, $42.00 **K**=1lb, $150.00

1411BZ Black Zucchini (50 days) Open-pollinated. A misnomer as Black Zucchini is not as dark as Raven but instead a very dark green. Perfect for home gardeners who are looking for an open-pollinated zucchini with superior flavor, and good, but not record-breaking, yields. Brought from California in 1931 by the Jerome B. Rice Seed Co. of Cambridge, NY. Fruits of greenish-white firm tender flesh with small seed cavities, are best picked around 6". The flavor was well above average in our taste tests. Open plant habit makes picking relatively easy. ②③

A=1/8oz, 80¢ **B**=1/4oz, $1.50 **C**=1/2oz, $2.50 **D**=1oz, $3.60
E=4oz, $5.60 **K**=1lb, $16.00

1424SE Sebring (50 days) F-1 hybrid. Better than Gold Rush which it replaced. A beautiful golden straight-sided cylindrical zucchini, relatively free of green tips, with open plant habit for easy harvesting. Averaged 17 baby fruits per plant or 6 mature fruits. Rated "very early" in the 2006 OSU trial. Resistant to PM. ②

A=1/8oz, $1.50 **B**=1/4oz, $2.60 **C**=1/2oz, $5.00 **D**=1oz, $9.50
E=4oz, $35.00 **K**=1lb, $125.00

1434CZ Cocozelle (53 days) Open-pollinated. Rich-flavored zucchini ribbed with light green stripes. Originated in Italy and called *Cocozella di Napoli* in the 1800s. The term 'zucchini' was first used by California seed house Aggeler & Musser in 1921. ②

A=1/8oz, 80¢ **B**=1/4oz, $1.50 **C**=1/2oz, $2.60 **D**=1oz, $4.00
E=4oz, $6.00 **K**=1lb, $17.00

1457CO Costata Romanesca OG (60 days) Open-pollinated. According to Will Bonsall, "the only summer squash worth bothering with, unless you're just thirsty." Deeply striped and ribbed, Costata resembles Cocozelle, with a distinctive sweet mildly nutty flavor. Also a productive source for tasty male squash blossoms. Tender skin damages easily, a liability for commercial transport. If you want to win the blue ribbon for largest summer squash at your fair, grow Costata. It reaches 20 lb. in a good year. CO-certified. ①

A=1/8oz, $1.40 **B**=1/4oz, $2.60 **C**=1/2oz, $4.50 **D**=1oz, $7.50
E=4oz, $22.00 **K**=1lb, $75.00

1460TR Tromboncino (60 days summer squash, 90 days winter squash) Open-pollinated. Also known as zucchini rampicante although, unlike other zucchini, a *moschata*. Tender, mild, sweet and nutty when harvested as summer squash at 8–12". Delicious steamed, grilled or sliced raw in salad. Italians use it in gnocchi and for stuffing ravioli. Despite its name, not a musical instrument, though the green-tan fruits will grow up to 30" and curve like a trombone. At that size, best baked as winter squash. As might be inferred from its alias, its vines are rampant and should be trellised. "Out-tastes 95% of the Zuke pack," declares Relentless. ②

A=1/8oz, $1.40 **B**=1/4oz, $2.60 **C**=1/2oz, $5.00 **D**=1oz, $8.00
E=4oz, $22.00 **K**=1lb, $80.00

LEBANESE

Lebanese, yellow, patty pan squashes: **1/8 oz packet sows 5-8 hills, 1 ounce 40-60 hills**, 200-320 seeds/oz.

1488WB White Bush (50 days) Open-pollinated. Also called Mid-East or Cousa squashes, Lebanese types are bulbous-shaped light green with white speckles. Robust crawly bushes are amazing croppers; yielded 15 fruits per plant in our trial plot. Pick fruits when they are young and tender or allow them to fatten for stuffing. Marketers note: Must be handled gently so not to scratch. Relentless says better than a hybrid in many ways. "Sublime taste and makes better pickled chips than cucumbers." ②

A=1/8oz, 80¢ **B**=1/4oz, $1.50 **C**=1/2oz, $2.60 **D**=1oz, $4.00
E=4oz, $8.00 **K**=1lb, $17.00

YELLOW

1504SF Saffron (42 days) We're just mad about open-pollinated Saffron, a 4–6" yellow semi-crookneck that excelled in our trials. Less warty than straightneck squashes. Small single-stem bush with open structure but very large leaves gives good sunburn protection. They call it mellow yellow. ②

A=1/8oz, 90¢ **B**=1/4oz, $1.70 **C**=1/2oz, $3.20 **D**=1oz, $6.00
E=4oz, $11.00 **K**=1lb, $24.00

1507GT Gentry (43 days) Gentrify your squash patch with this F-1 hybrid crookneck. This is one upscale squash with its butter-yellow smooth skin, mild sweet delicious flavor, and impressive production, even under stress. Best harvested at 5–6". Our trialer called it "the perfect crookneck." ⑤

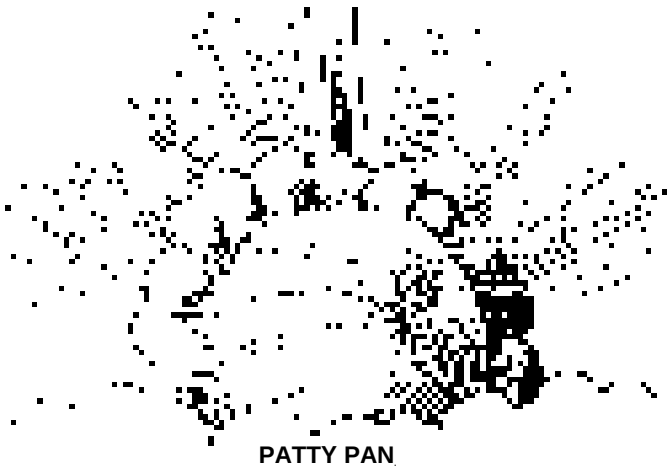
A=1/8oz, $1.80 **B**=1/4oz, $3.40 **C**=1/2oz, $6.00 **D**=1oz, $11.50
E=4oz, $43.00 **K**=1lb, $165.00

1520LO Lemon OG (50 days) Open-pollinated, fruits the size, shape and color of a lemon. Like miniature light bulbs (the old-fashioned kind) they proliferate on the compact plants that are rumored to have some resistance to the striped cucumber beetle. (We'll trial them another year or two before we become convinced!) Very tasty fried and as a pizza topping. Great appeal at markets. Best flavor when very young. Roberta considers this variety a lemon if you allow fruits to get bigger than lemons. ICS-certified. ① **NEW!**

A=1/8oz, $1.60 **B**=1/4oz, $2.80 **C**=1/2oz, $5.20 **D**=1oz, $10.00
E=4oz, $36.00

1526ZP Zephyr (54 days) F-1 hybrid. This squash gets its cachet from its unique contrasting color pattern as refreshing as the cool gentle breeze evoked by its name. Customers, particularly market growers, have asked us to list it ever since its 1999 introduction by Johnny's. "Tastes great, produces #1 squash like crazy all summer and looks very pretty," summed one. Looks like a yellow squash dipped in pale green at the blossom end. Sometimes Zephyr's earliest fruits are yellow with green stripes. Enjoy its nutty flavor best at the 4-6" stage. A straightneck type often with a slight curve at its neck that is the product of the yellow crookneck in its breeding. Also has yellow acorn and delicata squash in its background. Large plants with open habit are easy to harvest. Feel the breeze! ③ **NEW!**
A=1/16oz, $2.60 **B**=1/8oz, $5.00 **C**=1/4oz, $8.00 **D**=1oz, $20.00 **E**=4oz, $75.00

1539CO Early Summer Yellow Crookneck OG (58 days) Open-pollinated. Deep yellow warted fruits with bulbous shape and narrow curved necks. Best when picked young. Probably grown by Native Americans. Dates to 1700 and a standard in early 19th century American seed catalogs. The 1888 Burpee catalog rather uncomplimentarily described it as "covered with warty excrescences" but called the flavor "excellent." Burpee charged a nickel for a packet, a dime for an ounce, and 75¢ per pound. CCOF-certified. ③
A=1/8oz, $1.20 **B**=1/4oz, $2.20 **C**=1/2oz, $4.00 **D**=1oz, $6.50 **E**=4oz, $12.00 **K**=1lb, $40.00



PATTY PAN

Harvest as tiny buttons or up to fist size. Anne Elder says they "look like flying saucers from another world." Gourmets call patty pans "scallopini," and consider them the most appetizing of the summer squashes. Were also known as simlins or cymlings a century ago.

1577YO Y-Star OG (48 days) F-1 hybrid. A new color and new earliness for patty pan squash. Bright yellow uniform scallops with pale green stars on the blossom end. Harvested small, they are quite sweet and tender, "very tasty" says our trialer and their open plant habit with minimal spines makes them extremely easy to harvest. Y-Star really pumps out the fruits over an extended period. In 2010, Donna Dyrek's first ripened July 18, a full two weeks ahead of Benning's, and they kept coming right till the end. New in 2010, and despite the price was a hot seller until we ran out early. AGRIOR-certified. ③
A=1/16oz,, $2.60 **B**=1/8oz, $5.00 **C**=1/4oz, $9.00 **D**=1oz, $32.00 **E**=4oz, $110.00

1580SN Sunburst (52 days) F-1 hybrid. Among the most attractive of the Patty Pans with its bright yellow skin, Sunburst has become a staple for market growers since winning the 1985 AAS. ⑤
A=1/8oz, $2.10 **B**=1/4oz, $4.00 **C**=1/2oz, $7.50 **D**=1oz, $13.00 **E**=4oz, $48.00 **K**=1lb, $185.00

1590BG Benning's Green Tint (55 days) Open-pollinated. Also known as Farr's White Bush, developed by Charles N. Farr and introduced 1914 by F.W. Bolgiano & Co. of Washington, DC. Farr selected for the uniform scallops and the greenish-cream coloring in the younger stages of the fruits. Rated by many as the best-tasting summer squash, especially if picked small at 2–3" diameter when they are especially fine-textured and tender. ②
A=1/8oz, 90¢ **B**=1/4oz, $1.60 **C**=1/2oz, $3.00 **D**=1oz, $5.00 **E**=4oz, $8.00 **K**=1lb, $25.00

BITTER MELON *Momordica charantia*

1594BM Long Bitter Melon (70 days from transplant) Also known as Bitter Gourd, though botanically neither a melon nor a gourd. Like radicchio, an acquired taste. Parboiling or salting when preparing removes much of the bitterness. In our trial test Nikos sliced and served it in an omelette, one of its traditional uses. To keep them fresh and tender, bitter melons are best harvested immature, no longer than 6–8". Remarkable-looking fruits are green with ridges and pebbles. Once they start turning yellow they are over-ripe. Vines sprawl and benefit from trellising. Not a huge producer in Colrain, MA, but probably would be further south. Prized in India and China for both culinary and medicinal uses. ⑤
A=1/8oz, $2.80 **B**=1/4oz, $5.50 **C**=1/2oz, $10.00 **D**=1oz, $18.00 **E**=4oz, $65.00

WINTER SQUASH

In 2010 we reorganized the winter squash section by species and common groupings. The The order is:

Cucurbita pepo:
1600-1609 Acorns
1610-1614 Delicata/Dumplings
1615-1616 Spaghettis
Cucurbita maxima:
1617-1619 Bananas
1620-1649 Buttercup/Kabochas
1650-1659 Hubbards
1660-1679 Miscellaneous *maxima*
Cucurbita moschata:
1680-1689 Butternuts
1690-1699 Miscellaneous *moschata*

All open-pollinated except where noted. Plant 4–5 seeds per hill. Allow 4–6 feet between hills. Tender, not frost hardy. Heavy nitrogen feeders. Excessive heat and/or drought can prevent blossom set, reduce yields. Winter squash can take one or two light frosts on the vine. To improve flavor and storage, field cure for at least 10 days after harvest, covering if hard frost threatens. Store under proper conditions, 50˚ and 60–70% relative humidity. Storing at temperatures under 50˚ reduces shelf life. Be sure to use damaged, stemless or small fruit first. Acorns have the shortest storage time before getting stringy, followed by delicatas, buttercup/kabochas.

CUCURBITA PEPO

Have hard 5-sided ribbed stems, and fruits are usually ribbed. One of the oldest domesticated species. Pepo derives from the Greek *pepon*, meaning "ripened by the sun." They also include summer squashes and small gourds, as well as miniature pumpkins 1702-1705, pie pumpkins 1711,1718-23, intermediate pumpkins 1708 and 1729, jack-o'-lanterns 1748-1752.

Acorn group

Approximate seed count: 280 seeds/oz, **1/8 oz packet sows 7 hills**. Dr. Brent Loy of UNH found that acorn squash often are not fully ripe even when they attain full size and color. They continue to develop sugars until 45 days after pollination. Do not harvest until most of the fruits display an orange ground spot. Much of their reputation for watery, fibrous, inconsistent eating quality is probably due to premature harvesting.

1605CV Carnival (85 days) F-1 hybrid. Carnival will give your senses a thrilling ride: first treating your eyes to a kaleidoscope of colors, each fruit flecked with shades of green, gold and yellow, no two exactly alike. Then wafting to your nostrils with its nutty squash aroma as it bakes, finally thrilling your taste buds with its full-bodied sweetness. This semi-bush acorn type produces medium-sized fruits near the crowns for easy picking. It should be a marvelous seller at farmers markets. Will store for many months. *Note: color variation is a function of temperature. In high temperatures Carnival will have less yellow and gold and more green.* ⑤
A=1/8oz, $1.90 **B**=1/4oz, $3.60 **C**=1/2oz, $7.00 **D**=1oz, $13.00 **E**=4oz, $50.00 **K**=1lb, $190.00

1608TQ Table Queen (90 days) 1 1/2–2 lb. black-green ribbed fruits good for baking. Dry flesh is best eaten within 3–4 months after harvest. Introduced by the Iowa Seed Co. in 1913 and once known as Des Moines, Queen began a trend away from monster squashes in favor of smaller fruits. A similar squash was grown by the Arikara tribe in North Dakota. ②
A=1/4oz, 80¢ **B**=1/2oz, $1.60 **C**=1oz, $3.00 **D**=4oz, $6.50 **E**=1lb, $20.00 **K**=5lb, $95.00

1609SR Sweet REBA (90 days) REBA stands for Resistant Early Bush Acorn. If you are acorn-averse, REBA might make you reconsider. This Cornell release is the sweetest acorn I've tried, flesh dry and substantial. Despite compact bush habit, heavy yields of 1–1 1/2 lb. fruit. Resists PM, helping sugars to develop. New in 2011 with good sales. ②
A=1/8oz, $2.30 **B**=1/4oz, $4.40 **C**=1/2oz, $8.00 **D**=1oz, $15.00 **E**=4oz, $55.00

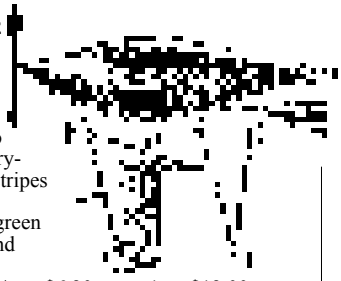
1610PO Paydon OG (105 days) Surprise winner at our squash tasting in February 2006 that spiced up *Boston Globe* food writer Jonathan Levitt's warehouse visit. This extremely rare large tan acorn made its way from France to Louisiana to Ohio to Bosco, IL, where it was maintained by the Paydon family since the 1860s. Its flavor, texture and sweetness reminded us of Delicata and Sweet Dumpling. Delicious yellow flesh, though a bit stringy. Teardrop-shaped fruits turn from cream tan to bright yellow in storage. Extremely vigorous vines give moderate yields of 3 lb. fruits. *Requires too long a season for cold northerly areas.* CO-certified. ①
A=1/8oz, $1.80 **B**=1/4oz, $3.40 **C**=1/2oz, $6.00 **D**=1oz, $10.00 **E**=4oz, $32.00 **K**=1lb, $95.00

Disease: Powdery Mildew
Controls: Use small plots to slow spread, plant indeterminate (viney) varieties, control weed competition.
Materials: sulfur (#**8862-6**) and whole milk, mineral or other oils in combination with potassium bicarbonate, Actinovate (#**8855-6**).

Disease: Bacterial Wilt
Cultural control: Striped Cucumber Beetle is vector—control it; choose resistant varieties.

Delicata/Dumpling group

Approximate seed count: 450 seeds/oz. **1/8 oz packet sows 4 hills.**



1611ZO Zeppelin Delicata OG (100 days) Zeppelin is good Delicata, from an old strain that was not affected when the trade allowed this beloved 1894 heirloom to be crossed by desert gourds. The lovely ivory-colored oblong 1 lb. fruits with dark green stripes have the unsurpassed sweetness that gives Delicata its good reputation. In storage the green stripes turn orange and the cream background sometimes yellows. OT-certified. ①

A=1/8oz, $1.80 **B**=1/4oz, $3.40 **C**=1/2oz, $6.20 **D**=1oz, $12.00
E=4oz, $36.00 **K**=1lb, $125.00

1614SD Sweet Dumpling (100 days) Stunning 1–1 1/2 lb. ivory-colored green-striped fruits shaped like miniature pumpkins sell themselves on the stand. *New York Times* food writer Regina Schrambling calls them the "avocados of squash" for their inherent buttery richness and sweet-tangy taste. To experience its sweet dry and memorably rich deep orange flesh, make sure your Dumpling is ripe. Introduced by Sakata Seed Corp. of Yokohama, Japan, in 1976 and marketed as Vegetable Gourd. Sold better after they changed its name to the more appealing Sweet Dumpling. ②

A=1/8oz, $1.20 **B**=1/4oz, $2.00 **C**=1/2oz, $3.60 **D**=1oz, $6.00
E=4oz, $15.00 **K**=1lb, $42.00

Spaghetti group

Approximate seed count: 190 seeds/oz. **1/8 oz packet sows 5 hills.**

1615QO Squisito OG (87 days) I groaned when Nikos handed me packets of spaghetti squash to trial. Normally I disdain this stringy genre, having long believed it was nothing more than a breeding disaster cleverly rescued by a public relations campaign. But whatever Minnesota breeder Elvin Martin saw in these early-maturing 4 lb. avg. deep-gold oblong fruits, I see too. Martin doesn't recall what squash he started with, but he liked it and has been selecting it for "at least six" years. He produces a large amount for sales to local markets. He sent it to us because he thought it was something a bit different that would interest us. Approaching it with great skepticism, I found it wonderfully sweet and ended up eating the larger half in one sitting. Unprecedented! Nikos named it Squisito (skwee-ZEE-toh), Italian for 'yummy.' Think exquisite squash. ☙2009. OT-certified. ①

A=1/8oz, $1.60 **B**=1/4oz, $2.80 **C**=1/2oz, $5.50 **D**=1oz, $10.00
E=4oz, $32.00

1616SP Spaghetti (88 days) Penny Kupinski of Harrisburg, MO, took us to task for damning spaghetti squash with faint praise. "From your description you may not have had *truly ripe* spaghetti squash which is a *deep* gold. Pale yellow is nowhere near ripe and tasteless and tough. Takes a long time to mature even here…but has a wonderful nutty flavor when ripe and needs only a little salt and pepper to be excellent…It is also a great keeper." Susan Morris of Waldoboro, ME, was delighted that the last of hers kept until the middle of June. She uses the shells as water dishes for her chickens. Oblong fruits, generally around 4 lb. with spaghetti-like strings in the flesh. First commercialized by Sakata in Japan in 1934 and brought to the States by Burpee two years later.②

A=1/4oz, $1.00 **B**=1/2oz, $1.80 **C**=1oz, $3.50 **D**=4oz, $10.00
E=1lb, $38.00 **K**=5lb, $180.00

CUCURBITA MAXIMA

Have fat round stems that turn corky and woody when the squash is ripe. Fruits tend to be medium to large and often have bumpy surfaces and button-ends. See also pumpkins: Lumina 1713, Jarrahdale 1716, Rouge Vif d'Etampes 1727 and Big Max 1757.

Banana group

Approximate seed count: 125 seeds/oz.

Sibley (100 days) Also known as Pike's Peak. By far the best squash I tasted in 2008, and matched only by # **1635** Sunshine in 2009, this once-revered brown-seeded heirloom first surfaced in the Missouri River watershed in the 1830s and is similar to kindred varieties found among the Winnebago Indians. Our original seed crop was from Hiram Sibley, whose great-great-great-grandfather of the same name introduced it to commerce in 1887 through his seed company in Rochester, NY. Present-day Hiram has been growing it in Maine for the past five years, selecting for trueness to type, taste and adaptability, and providing us with our stock seed. Vigorous 12–15' vines produce slate-blue obpyriform 1' long fruit weighing 6-8 lb, once described by Michael Pollan as "pinched in both ends and bulging at the waist." Famous New England seedsman James J.H. Gregory called it "magnificent" and Goldman rates it "the best of the bananas," a group she calls "top tier." Ours in 2008 was rich, moist, flavorful and sweet, though we sampled it in October, too soon. The quintessential storage squash, not coming into its own until January after its orange flesh has dried and sweetened. Brought on board the Slow Food Ark of Taste.

1617SB Sibley
A=1/8oz, $1.80 **B**=1/4oz, $3.20 **C**=1/2oz, $6.00 **D**=1oz, $10.00
E=4oz, $30.00

1618SO Sibley OG CO-certified. ①
A=1/8oz, $1.90 **B**=1/4oz, $3.50
C=1/2oz, $6.50 **D**=1oz, $11.00

1619PB Pink Banana (105 days) Though fruits average "only" 14 lb, an occasional squash in good years can grow so huge that it inspires more jokes than even the massive zucchinis! As preposterous as its exaggerated banana shape and 5x18" dimensions may be, Banana's moist sweet orange flesh is also ridiculously good. Offered by Aggeler & Musser Co. in 1893, it developed an underground following on the West Coast, but has never been as widely grown in our parts. *Though not adapted to northern New England's cool summers*, our warming climate is making it a good bet most years here. Don't pick until its stocky blunt stem is corky. Since it sometimes develops sunken spots that can lead to rot, be diligent in storage and use for Thanksgiving dinner or by early winter. ②

A=1/4oz, $1.20 **B**=1/2oz, $2.20 **C**=1oz, $4.20 **D**=4oz, $10.00
E=1lb, $32.00

Buttercup/Kabocha group

Buttercup squashes, the main type grown in the Northeast, account for about 19% of New England winter squash sales. Approximately 160 seeds/oz. **1/8 oz packet sows 4 hills.**

1622BU Bush Buttercup Emerald strain (80 days) Fruits generally a lighter green than Burgess Buttercup, not as uniform or good quality but ready two weeks earlier. Mostly bush habit saves space. Introduced 1952. ②

A=1/4oz, $1.40 **B**=1/2oz, $2.50 **C**=1oz, $4.50 **D**=4oz, $14.00
E=1lb, $52.00 **K**=5lb, $250.00

1624SM Sweet Mama (88 days) F-1 hybrid. If you like buttercup squash you should try Sweet Mama, a grey-green drum-shaped buttercup type with rounded shoulders and without the cup. A week earlier than Burgess with outstanding sweet flavor. Among my favorite large winter squash, Mama pleases commercial growers as well as home gardeners. 1979 AAS. ⑤

A=1/8oz, $2.30 **B**=1/4oz, $4.00 **C**=1/2oz, $7.60 **D**=1oz, $15.00
E=4oz, $55.00

1626RK Red Kuri (92 days) Also called Uchiki Kuri; *Kuri* means chestnut in Japan. Growers admire its spectacular red-orange fruits, among the most attractive of all squashes. Its flavor elicits a wide range of comments from "the best winter squash" to "glorified zucchini, flavor like water." Liking the dry flesh of this Japanese squash, we think the truth lies somewhere in between. Very popular at roadside stands. Teardrop-shaped fruits avg. 3–4 lb. Though reputed to be good keepers, their thin skins do not store well, according to members of one CSA. Also prized for the aroma of their blossoms when fried. ⑤

A=1/8oz, $2.30 **B**=1/4oz, $4.50 **C**=1/2oz, $8.50 **D**=1oz, $16.00
E=4oz, $62.00 **K**=1lb, $240.00

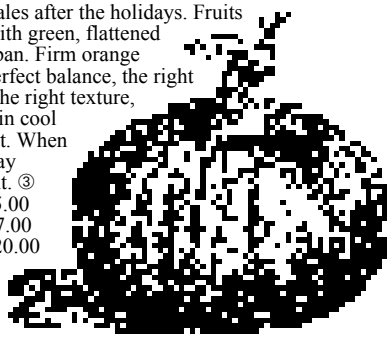
1628BB Burgess Buttercup (95 days) New England's favorite winter squash, enjoyed for its sweet deep-orange flesh. Fruits, with an acorn-shaped button on the blossom end and flattened shoulders, average 3–4 lb. with about 4 per hill. Stem is well dried when ripe. The original buttercup strain showed up in 1925 as a chance cross between Quality and Essex Hybrid in the trial garden at North Dakota Agricultural Experiment Station. After further selection by famous seedsman Albert Yaeger, Oscar H. Will of Bismarck introduced it in his 1931 catalog. Alan Kapuler has said, "If you pick only one squash to grow this is it." ②

A=1/4oz, $1.20 **B**=1/2oz, $2.20 **C**=1oz, $4.00 **D**=4oz, $9.50
E=1lb, $32.00 **K**=5lb, $150.00

1630DO Uncle David's Dakota Dessert OG (95 days) This outstanding strain which David Podoll calls "the original buttercup" has been in his family for 70 years. They've been selecting it for 40 years, crossing it with hubbards and other *maximas*, primarily for color, taste, sweetness, and vigor and hardiness in cold weather, but also for thick flesh, small seed cavities and higher productivity. The Podoll family bake it into pies without using any other sweetener. But this is also a versatile main-dish squash, with all the character that makes buttercup a New England favorite. And it is one rugged buttercup, withstanding several cold summers and all those temperature extremes in recent seasons, producing a lot of squash without skipping a beat. ICS-certified.①

A=1/4oz, $1.80 **B**=1/2oz, $3.40 **C**=1oz, $6.60 **D**=4oz, $26.00
E=1lb, $100.00

1633ER Eastern Rise (95 days) F-1 hybrid. The best-yielding hybrid in Heron Breen's trial, besting # **1635** Sunshine and Confection. Each fruit averaged 3 1/2 lb. Rise's heavenly flavor won unanimous praise from our feisty warehouse tasting crew in 2007, its creamy texture with just the right sweetness making a meal that sticks to you. Cures more reliably than Sunshine, even in poor fall weather, with almost no spoilage until after February. A superb storage squash that comes into full flavor after December. Recommended for sales after the holidays. Fruits attractive orange-red streaked with green, flattened large buttercups without the turban. Firm orange flesh with rich nutty flavor in perfect balance, the right sweetness, the right moistness, the right texture, smooth and hearty. Grows well in cool conditions; dislikes extreme heat. When grown in inadequate sunlight may develop green spots. PM tolerant. ③



A=1/8oz, $2.60 **B**=1/4oz, $5.00
C=1/2oz, $9.00 **D**=1oz, $17.00
E=4oz, $60.00 **K**=1lb, $220.00

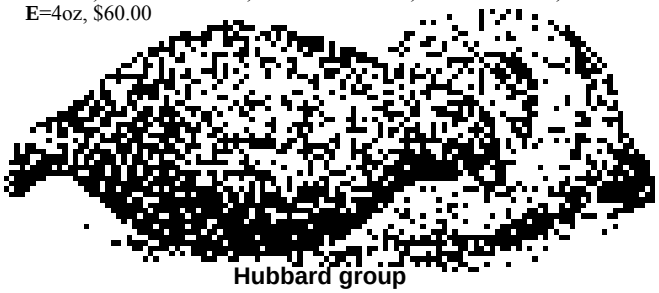
"Appreciate your comments about slow money. True conservatism."
—David Podoll, Prairie Road Farm, Fullerton, ND

1635SS Sunshine (95 days) F-1 hybrid. In the last 17 years, the folks at Johnny's have won a remarkable seven All-America awards. Sunshine is Rob Johnston's best, combining the spectacular scarlet color of a Red Kuri with a sublime eating quality previously lacking in red squash. The bright orange flesh is dry yet tender, sweet yet meaty, with real substance; the color stays bright in the cooking. While none of the Buttercup types is high yielding, these short-vined plants give a fair harvest of fruits shaped like a buttercup, but with rounded shoulders and no turban. One year we had 14 averaging 4.4 lb. each from just three hills. Johnston says they derived Sunshine from a cross between two different orange varieties developed at Johnny's. Counting the 3 years needed to stockpile a sufficient seed supply, it required almost 20 years' labor. Well worth the effort. Good for fall sales and eating. Thin skins do not cure well in cold wet autumns and can be damaged around stems and shoulders by light frosts. Not recommended for storage after New Year. ③

A=1/8oz, $2.50 **B**=1/4oz, $4.60 **C**=1/2oz, $9.00 **D**=1oz, $17.00
E=4oz, $55.00 **K**=1lb, $200.00

1637ND Nutty Delica (95 days) F-1 hybrid. Mainers traditionally love the dry-fleshed squashes and after storage this one may be the best of all the Japanese Kabochas. Complex flavor of its deep golden flesh improves with age, peaking after January. Keeps until late spring. Incredibly sweet, slightly nutty flavor. Vines produce abundant 2–3 lb. flattened round dark fruits stippled with bright green. Grows well in cool conditions. ⑤

A=1/8oz, $2.60 **B**=1/4oz, $5.00 **C**=1/2oz, $9.00 **D**=1oz, $17.00
E=4oz, $60.00



Hubbard group

Approximately 120 seeds/oz. **1/8 oz packet sows 3 hills.** James J.H. Gregory, who introduced hubbards to commerce around 1850, called them "the acme of perfection in squashdom," though hubbards now account for only about 5% of New England winter squash sales.

1654BB Baby Blue Hubbard (95 days) For home gardeners with space limitations, a scaled-down version of #**1655** Blue Hubbard developed at the University of New Hampshire from a 1953 cross between Blue Hubbard and Bush Buttercup. Baby Blue's vines are much more compact and its fruits much smaller (about 4–5 lbs), but their flavor doesn't match up to those traditional large hubbards and their yield is lower, too. ②③

A=1/8oz, $1.30 **B**=1/4oz, $2.20 **C**=1/2oz, $4.00 **D**=1oz, $7.00
E=4oz, $16.00 **K**=1lb, $50.00

1655BH Blue Hubbard New England strain (100 days) Introduced in 1909 by Gregory as Symmes Blue Hubbard, in honor of S.S. Symmes, a gardener who worked for his company for many years. Gregory considered it his best introduction, praising its flavor, productivity and storage qualities. The 1917 Gregory catalog said "close your eyes…and you would think you were eating cake." Bright yellow-orange dry sweet flesh. Each squash will feed a large family because fruits average 15–20 lb, sometimes exceeding 30 or 40 lb. Vines crawl all over the garden. Traditional New England Thanksgiving favorite. Prized also for its large white sweet seeds—delicious roasted. Blue Hubbard has proven effective as a perimeter trap crop for striped cucumber beetles. Completely encircle a main crop of other cucurbits with Hubbard vines, concentrating the pests in the border areas. ③

A=1/4oz, $1.10 **B**=1/2oz, $2.00
C=1oz, $3.60 **D**=4oz, $9.00
E=1lb, $25.00 **K**=5lb, $120.00

Pest: Striped Cucumber Beetle
Cultural controls: use tolerant or resistant varieties, rotate crops, till under crop debris soon after harvest, use floating row covers (#**9101**) or insect netting (#**9080-2**) until flowers appear, perimeter trap cropping (#**1411** Black Zucchini and #**1655** Blue Hubbard make particularly good trap crops), use yellow sticky strip (#**8830**), hand-pick early a.m. when beetles are very sluggish.
Materials: Surround (#**8870**), Pyrethrum (PyGanic #**8925**), Bugitol (#**8890**).

Pest: Squash Bug
Cultural controls: rotation, till in cucurbit debris before winter & plant a cover crop, boards on soil surface near squash will attract bugs overnight which can be killed, destroy egg clusters on undersides of leaves, avoid mulching.
Materials: Pyrethrum on young nymphs, Neem.

Pest: Squash Vine Borer
Cultural controls: butternut squash is resistant, *maximas* & *pepos* susceptible; rotation, plow in squash vine debris soon after harvest, use floating row covers (#**9101**), watch for wilting plant parts and destroy borer within.

Miscellaneous *Maxima*

1665SR Lower Salmon River (94 days) Contrary to our last catalog description, the Lower Salmon River's 425-mile waterway in Idaho is *not* the longest in the lower 48 states, not even close. It is one of the longest with no dams. Our thanks to Robert Kimm of Marcellus, NY, for pointing out our embarrassing gaffe. It has been dubbed "The River of No Return." Lest the Lower Salmon River squash become the Squash of No Return, we're rescuing this rare treasure maintained by the old Abundant Life Seed Foundation from undeserved obscurity. We nearly added it after my 2001 trial. It resurfaced in our 2009-10 winter taste test where it won plaudits from our staff for its thick tasty sweet orange flesh, superb for squash pie. Large salmon-pink pumpkin-like fruits, quite variable in size, averaged 7 1/2 lb. in my trial. ①

A=1/8oz, $1.80 **B**=1/4oz, $3.30 **C**=1/2oz, $5.50 **D**=1oz, $9.50

1668SM Sweet Meat (95 days) This tasty 12–15 lb. slate-grey heirloom, shaped like a slightly flattened round pumpkin was maintained by an Oregon family for 100 years and sold by Gill Bros. of Portland, OR. It has long had a loyal following in the West. Now its fame is spreading east. Its dry sweet nutty thick orange flesh improves in storage with a flavor similar to # **1655** Blue Hubbard. ②③

A=1/4oz, $1.00 **B**=1/2oz, $1.80 **C**=1oz, $3.40 **D**=4oz, $9.00
E=1lb, $24.00 **K**=5lb, $110.00

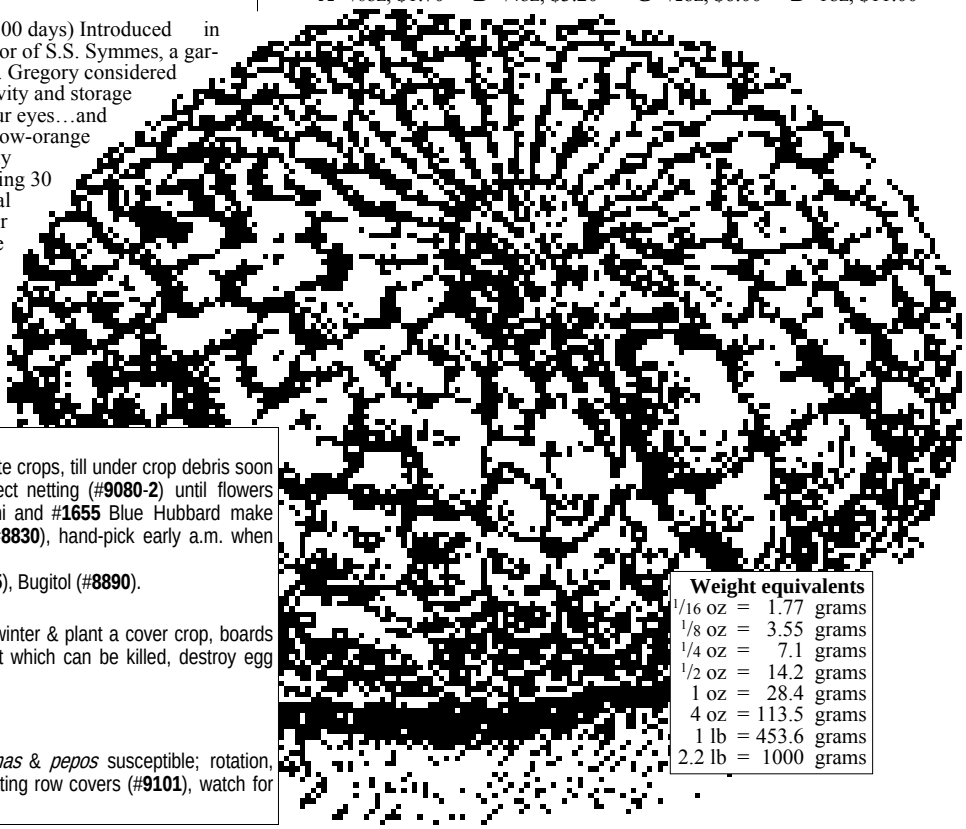
Galeux d'Eysines OG (98 days) Not available in 2012.

1673MC Marina di Chioggia (100 days) The sea pumpkin of Chioggia is surely one of the most beautiful squashes with its deep ridges and bumpy protuberances. Though fruits grow quite large, averaging 15 lb. in my 2010 plot, they have such eye appeal that growers report they are hot sellers. As delectable as they are handsome, even those harvested in 2009's horrific squash year won accolades from our staff for their dense moist texture, rich sweetness and real substance. Definitely in Heron's and my top five. Variability adds to their appeal, color ranging from aquamarine to very dark green, most with bumps, some without. Delicious baked, in pies; ideal for gnocchi and ravioli. *Caution: rampant vines.* "Gorgeous, high yielding, vigorous and very yummy," sums up Heron. ②

A=1/8oz, $1.70 **B**=1/4oz, $3.00 **C**=1/2oz, $5.00 **D**=1oz, $8.00
E=4oz, $25.00 **K**=1lb, $90.00

1675CR Candy Roaster ECO (112 days) This Appalachian heirloom, peerless as a baked squash, boasts superb eating quality worthy of its name. Grows rampant vines, large leaves and matures somewhat warty pinkish-orange enlarged buttercup-shaped fruits with blue-green markings. Warmth brings out its sweetness. Our seed grower, Scott Paquin of Firefly Farm in Burnsville, NC, has worked with chefs to Maxima-ize the sweet flavor and large size (13 lb. avg.) and to popularize it to a point where his market customers ask for it by name. "Makes the most excellent squash soup with apples, potato, ginger, garlic, onion, cumin, curry, cayenne, salt and pepper," says Paquin. He has been selecting since 2003 for storability with notable improvement. Avg. production 2 fruits/plant ranging from 5–25 lb. each. *Caution: Ripens in northern areas only in good growing years.* ①

A=1/8oz, $1.70 **B**=1/4oz, $3.20 **C**=1/2oz, $6.00 **D**=1oz, $11.00



Weight equivalents		
1/16 oz	=	1.77 grams
1/8 oz	=	3.55 grams
1/4 oz	=	7.1 grams
1/2 oz	=	14.2 grams
1 oz	=	28.4 grams
4 oz	=	113.5 grams
1 lb	=	453.6 grams
2.2 lb	=	1000 grams

CUCURBITA MOSCHATA

C. moschata are usually smooth and tan. See also **1740** Cheese Pumpkin.

Butternut group

Approximately 280 seeds/oz, **1/8 oz packet sows 7 hills.** Butternut was introduced in 1936 by Joseph Breck and Sons of Boston, out of Canada Crookneck, an 1800s variety. Butternuts need to be started indoors to mature in our climate. They are the best keepers and contain 30% more vitamin A than hubbards and 80% more than acorns.

1683BO Burpee's Butterbush OG (87 days) Of the nine different butternut squashes Mark Fulford tried over the years, this one is "hands down the best." Fruits average no more than 1 1/2 lb, each a perfect one-person serving chock full of deep, reddish-orange flesh "as sweet as the best sweet potatoes." Seed cavities are small. Fulford describes the flavor as nutty, and the texture moist but never watery, not as moist as the large butternuts. They were a big hit when staffer Paula Fulford brought them to our warehouse for a taste test. Their earliness is an important plus in cold summers. Their compact bushes with short runner vines crawl only 3–6', a big bonus where space is precious. Average yield is 3–5 ripe fruits per plant. Flesh has superior flavor and deep color than any other butternut. Introduced in 1978, the first bush butternut and still the best. Smooth tan skin; excellent keeper. *Very short crop; order early. Members-only special; see page 10 for details.* **BACK!** CCOF-certified. ①
A=1/8oz, $2.00

1685PO Ponca Baby Butternut OG (90 days) This baby is growing up, but still ripens here well before Common Ground Fair. Once noted for producing baby 2 lb. fruits, it has been improved by selection and now kicks out 3–4 pounders. Ideal for short-season gardeners who like butternut but can't vine-ripen Waltham. Still with small seed cavities, the fruits ripen tan without green streaking, but don't store as well as their big Waltham cousins. Developed by Dermot P. Coyne at the University of Nebraska in 1976. MOFGA-certified. ①
A=1/8oz, $1.80 **B**=1/4oz, $3.40 **C**=1/2oz, $6.50 **D**=1oz, $12.00
E=4oz, $45.00

Waltham (105 days) Elegant 9" tan fruits weighing 4–5 lb. Orange dry flesh has a sweet nutty flavor. Excellent keeper. Bred by the Massachusetts Agricultural Extension Service by crossing New Hampshire Butternut (a 1956 Yaeger/Meader development) with a neckless *moschata* from Turkey, and introduced by Bob Young of Waltham, MA. The most important squash in Virginia and the Carolinas because more resistant to squash vine borers than others. "Waltham gave us wheelbarrows full," said Louis Kajawinski of Harrisburg, MO. Won 1970 AAS. *Caution: in cool summers such as 2008 and 2009 fails to ripen in northernmost areas.*

1687WB Waltham ②
A=1/4oz, 90¢ **B**=1/2oz, $1.70 **C**=1oz, $3.20 **D**=4oz, $8.00
E=1lb, $24.00 **K**=5lb, $110.00

1688WO Waltham OG CCOF-certified. ③
A=1/4oz, $1.30 **B**=1/2oz, $2.50 **C**=1oz, $4.80 **D**=4oz, $13.00
E=1lb, $42.00

Miscellaneous *Moschata*

1693SO Seminole OG (110 days) Creek-speaking Seminole Indians gave it the name *chassa-howitska*, meaning "hanging pumpkin." Rated one of the ten most endangered American foods by RAFT, these buff-colored 7" tear-drop-shaped squashes were cultivated by the Seminoles in the Everglades region of Florida in the 1500s. The seeds were sowed at the base of girdled trees, so that the irrepressible vines, which grow in excess of 30', climbed the trunks, allowing the fruit to hang from the bare limbs. The deep orange flesh is sweeter than butternut, superb for pies, soup and baked treats, and the key ingredient in delicious Seminole pumpkin bread. Rated third among 21 varieties in Restoring Our Seed's 2005 fall taste test, and was co-star with #**1609** Paydon in our February 2006 warehouse feast. Resistant to vine borers. Extremely hard rind must be cracked like a coconut. Stores nearly forever. A great performer in the south and along the Atlantic seaboard, it loves hot humid climates as exemplified by this testimonial from Lloyd Pritchett of Ellijay, GA: "I planted two seeds on the bank of a small creek that runs through our yard…Once the plants got started they went wild. Lengthwise they were 101' and crossways another 125' plus. I harvested 67 pumpkins." *Probably requires too long a season to thrive in the north.* QCS-certified. ②
A=1/8oz, $1.70 **B**=1/4oz, $3.20 **C**=1/2oz, $6.00 **D**=1oz, $11.00
E=4oz, $40.00

Saving squash seed is challenging.

The genus *Cucurbita* has six different species, of which three are in our catalog. (We do not offer *C. argyrosperma*, *C. ficifolia* or *C. foetidissima* and they are seldom grown in our climate.)

Different varieties within the same species will cross readily, but crossing does not occur between the different species. Seeds from a crop that has been exposed to other cucurbits of the same species won't grow true to type. If you are saving seed, you need to isolate your crop from other cucurbits of the same species by at least 1500', or protect it from insects that would bring unwanted pollen, and hand-pollinate it yourself.

PUMPKINS

1/8 oz packet sows 3–8 hills, 100-280 seeds/oz. Plant 4–5 seeds/hill. Allow 6 ft. between hills. **All open-pollinated except #1708 Autumn Gold.**

Botanically, there are no such things as pumpkins. But we know one when we see one. "Pumpkins" listed here are three species, *Cucurbita pepo* (mini pumpkins, small pie and some jack-o'-lanterns), *C. moschata* (cheeses) and *C. maxima* (jack-o'-lanterns and decorative).

Each year the Maine Pumpkin Growers Organization sponsors a Giant Pumpkin and Squash Contest. Edwin Pierpont of Jefferson, ME, with a 1,471 lb beast in 2010 is the Maine record-holder. On Oct. 15, 2011, Jim Bryson of Ormstown, Quebec, set a new world record of 1818.5 lb. A one-ton pumpkin? Not yet. For more on this culture of madness, see *Backyard Giants* by Susan Warren (ISBN 10l-59691-278-2).

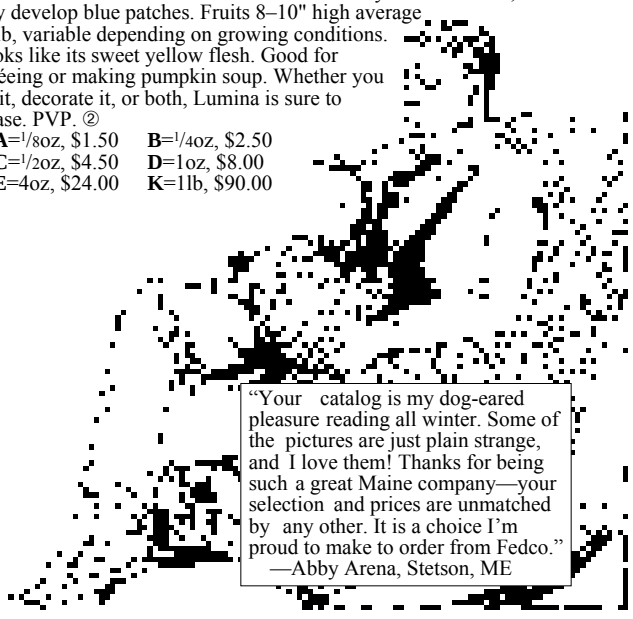
1702WL Wee-B-Little (90 days) *C. p.* This triumph of miniaturization impressed the 1999 AAS judges and will please home and market gardeners and kids everywhere. Unribbed fruits are easier to decorate than Jack Be Little. Small vines (only 6–8') produce 3–4 mini 8–12 oz. fruits per plant. Fruits, more upright than Jack Be Little with darker orange rind, look just like tiny pie pumpkins and could serve as such. Sturdy dark green stems provide prickle-free handles. PVP. ②
A=1/8oz, $1.70 **B**=1/4oz, $3.20 **C**=1/2oz, $6.00 **D**=1oz, $11.00
E=4oz, $32.00 **K**=1lb, $115.00

1705JL Jack Be Little (95 days) *C. p.* Tiny ornamental pumpkins weigh only about half a pound. They're great for decorations and a big hit with kids. Good to eat, excellent stuffed. Flattened, heavily ribbed with vigorous stems. Short vines, about 3–5'. Introduced by Hollar in 1987. ②
A=1/8oz, $1.30 **B**=1/4oz, $2.40 **C**=1/2oz, $4.40 **D**=1oz, $8.00
E=4oz, $26.00 **K**=1lb, $90.00

1708AG Autumn Gold (98 days) *C. p.* F-1 hybrid. Even northernmost growers can vine-ripen medium-sized pumpkins with 1987 AAS Autumn Gold. Commercial growers love its "precocious yellow" gene which ensures no green pumpkins at harvest. Instead, immature fruits are yellow, ripening to a deep orange, ribbed, with good handles, 10–15 lb. average. ②
A=1/8oz, $1.50 **B**=1/4oz, $2.60 **C**=1/2oz, $4.50 **D**=1oz, $8.00
E=4oz, $26.00 **K**=1lb, $90.00

1711BP Baby Pam (99 days) *C. p.* Agway pie pumpkin has deep orange color and excellent uniformity. Best of all, it vine-ripens 80–90% of its fruits even in a bad squash year so it's popular among Maine commercial growers. Fruits average 3–4 lb, slightly smaller and earlier ripening than New England Pie with the same excellent quality. ②
A=1/4oz, $1.20 **B**=1/2oz, $2.20 **C**=1oz, $4.20 **D**=4oz, $9.00
E=1lb, $33.00 **K**=5lb, $160.00

1713LU Lumina (100 days) *C. max.* Originating as a chance sport in one of Hollar's California pumpkin fields about fifteen years ago, Lumina is a lustrous ivory pumpkin that kids will love, excellent for both carving and painting. Lumina stores well if not exposed to frost, so a face painted on its smooth surface will last for weeks instead of days. Under stress, the fruit may develop blue patches. Fruits 8–10" high average 12 lb, variable depending on growing conditions. Cooks like its sweet yellow flesh. Good for puréeing or making pumpkin soup. Whether you eat it, decorate it, or both, Lumina is sure to please. PVP. ②
A=1/8oz, $1.50 **B**=1/4oz, $2.50
C=1/2oz, $4.50 **D**=1oz, $8.00
E=4oz, $24.00 **K**=1lb, $90.00

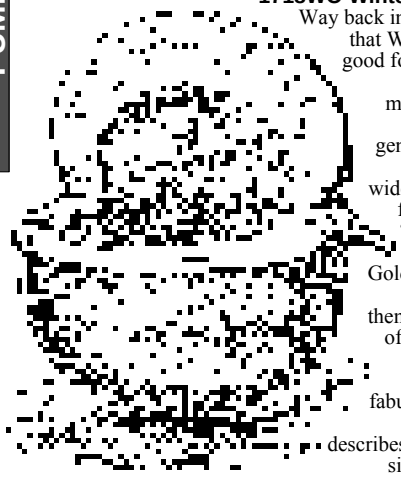


"Your catalog is my dog-eared pleasure reading all winter. Some of the pictures are just plain strange, and I love them! Thanks for being such a great Maine company—your selection and prices are unmatched by any other. It is a choice I'm proud to make to order from Fedco."
—Abby Arena, Stetson, ME

1716JD Jarrahdale (100 days) *C. max.* Add a touch of the unusual to your squash patch with this grey-blue Australian emigré. Features 6–10 lb. heavily ribbed fruits flattened on top like pumpkins, but much sweeter. "With an almost solid center, Jarrahdale is an excellent eating pumpkin. We found them *mild*, stringless, quick to bake, easy to blend into a great pie," reports Anne Elder. Excellent keeper. ②

A=1/8oz, $1.20 **B**=1/4oz, $2.20 **C**=1/2oz, $4.00 **D**=1oz, $7.00
E=4oz, $16.00 **K**=1lb, $42.00

1718WO Winter Luxury OG (100 days) *C. p.* Way back in 1988 Mark Fulford recognized that Winter Luxury was "3–4 times as good for pies as New England Pie." At that time Luxury was being maintained only by the Jung Seed Co. in Wisconsin, but since generating rave reviews from Amy Goldman, it has become more widely available. Uniquely russeted finely netted golden-orange skin "so beautiful…that it breaks my heart to cut one open," emoted Goldman. Trialer Heron Breen sells these "by letting people touch them…No one can keep their hands off them after that." The beauty is far more than skin deep, with Goldman calling her "flavor as fabulous as her appearance." Elaine Carlson of Cape Porpoise, ME, describes the pumpkin's puree as "really silken" and adds it to her chili for background and sweet smoothness. Introduced in 1893 by Johnson & Stokes as Winter Luxury and in 1894 as Livingston's Pie Squash by A. W. Livingston's Sons. Though the original Luxury was a lemon yellow, we offer the rich orange strain first sold by Gill Bros. of Portland, OR, in 1917. Vigorous vines bear globular 7–8 lb. fruits with juicy tender slightly sweet pale orange flesh. Productive, too; Breen harvested 1,700 lb. of fruit from 350 row ft, but somewhat delicate and only fair keepers. Goldman advises baking the pumpkin whole, pierced with a few tiny vent holes, until it slumps after about an hour at 350 °, scooping the pumpkin flesh out like ice cream and then putting it in the blender to make "the smoothest and most velvety pumpkin pie." OT-certified. ①



A=1/8oz, $1.60 **B**=1/4oz, $3.00 **C**=1/2oz, $5.50 **D**=1oz, $10.00
E=4oz, $30.00 **K**=1lb, $110.00

New England Pie (102 days) *C. p.* "New England Pie Pumpkin always sells out," says market grower David Craxton. Also known as Small Sugar pumpkin. Probably selected out of Connecticut Field pumpkin by early white settlers, the standard pie pumpkin for generations. A robust yielder in good seasons. In a recent year, our two hills produced more than 100 pounds, the 25 pumpkins, all vine-ripe, averaged 4.26 lb. During cold summers production is lower and only half will vine-ripen. However, ripening continues during curing.

1719NE New England Pie ②

A=1/4oz, 80¢ **B**=1/2oz, $1.50 **C**=1oz, $2.60 **D**=4oz, $5.50
E=1lb, $16.00 **K**=5lb, $75.00

1720NO New England Pie OG CCOF-certified. ③

A=1/4oz, $1.30 **B**=1/2oz, $2.50 **C**=1oz, $4.00 **D**=4oz, $11.00
E=1lb, $38.00

1723LO Long Pie OG (102 days) *C. p.* Probably the same variety as Nantucket Pie Pumpkin and Negro. Said to have migrated in 1832 from the Isle of St. George in the Azores to Nantucket on a whaling ship whence it was picked up by various seedsmen and came north to Maine. Burpee offered it in 1888 as St. George. It was and remains highly esteemed as the best pumpkin for Yankee pumpkin pies. Widely grown in Androscoggin County 60 years ago (an old-timer remembers them stacked up on porches like firewood), it was nearly forgotten. Narrowly saved from extinction when LeRoy Souther, a Livermore Falls, ME, native who had maintained it for more than 30 years, brought seeds to cucurbit aficionado John Navazio at his Common Ground Fair squash booth in the late 1980s. Navazio, who exhibited one at the 1988 Fair, took them with him to Garden City Seeds in Montana where he re-introduced them to commerce. 3–5 lb. fruits look like overgrown zucchinis to the uninitiated, but the telltale sign is an orange spot where the otherwise all-green elongated fruit rested on the ground. Vines have enormous vigor that has been increased through selection by our seed growers. Reports of astonishing yields were corroborated in 2007 when I harvested 15 fruits averaging 4 lb. each from just two hills! In storage, the whole fruit first blushes, then glows bright orange, signaling that its delicious flesh is ready to be turned into incomparable pies. One of the best for continued ripening after picking, Long Pie stored at 50 ° keeps all winter. Germinates poorly in cold soil. The little immature fruit under 5" long at the end of the season make great summer squash. *Seed in short supply; order early!* MOFGA-certified. ①

A=1/8oz, $1.40 **B**=1/4oz, $2.60 **C**=1/2oz, $4.40
D=1oz, $7.50

1727RV Rouge Vif d'Étampes (105 days) *C. max.* Also known as Cinderella. Goldman says it "coasts on its looks alone…insipid and watery." "Not so," dissents Donna Fraser-Leary of Charlotte, VT. "You do this…versatile pumpkin an injustice…While their flavor is somewhat milder than a winter squash and the texture somewhat fibrous, they possess a pleasant flavor. My daughter and I like it so much, we steam the pumpkin and eat it still in the shell. I use it in all my favorite recipes that call for squash or pumpkin." Rosalind Creasy says chefs in France use it as a base in their vegetable stock and bake garlic, onions and leeks in the pumpkin to scoop right from the shell into a Swiss cheese leek soup. While folks may disagree about its eating quality (I fall closer to Goldman's camp), no one can gainsay its spectacular beauty. This French heirloom turns the pumpkin patch into a glowing blaze with its decorative deeply ridged burnt-orange to red 7–30 lb. flattened fruits that make great decorations. Originated in France in the early 1800s, named for a town south of Paris. Introduced to the U.S. by Burpee in 1883. ②

A=1/8oz, $1.20 **B**=1/4oz, $2.20 **C**=1/2oz, $4.00 **D**=1oz, $7.00
E=4oz, $20.00 **K**=1lb, $60.00

1729YO Young's Beauty OG (105 days) *C. p.* Unimpressed by #**1708** Autumn Gold's "precocious yellow" gene? Don't care for its tendency to produce irregularly shaped fruit? Prefer a classic mid-sized open-pollinated pumpkin that usually ripens perfect brilliant deep orange globes? Try Young's Beauty. Expect good production of uniform hard-skinned thick-fleshed 10–12 pounders that make good pies. Although Hollar discontinued seed production, we're keeping this beautiful pumpkin in commerce. *Caution: May not ripen in northernmost areas.* MOFGA, CCOF-certified. ①

A=1/8oz, $1.40 **B**=1/4oz, $2.60 **C**=1/2oz, $4.20 **D**=1oz, $7.50
E=4oz, $23.00 **K**=1lb, $85.00

1740CH Cheese (110 days) *C. mos.* These 6–12 lb. wide-ribbed flattened tan fruits look like big wheels of cheese. Identified by Hedrick in *Cucurbits of New York* (1937) as "one of the oldest varieties cultivated in America," a distinctive group which has "remained remarkably stable." Introduced to commerce in 1807 by McMahon. Some folks call this variety Long Island Cheese because it was once the preferred pumpkin for pies in New York, New Jersey and on the island. Bright orange meat is coarse and quite fibrous, but its tender sweetness redeems its textural deficiencies and it does not deserve Hedrick's terse dismissal: "quality poor." Good for baking, deep cavity lends itself to stuffing. Despite its reputation for being intolerant of cold, we have found it to be a dependable producer even in our climate and unmatched as a good keeper. Paul Hauser's family in PA has maintained this variety for many years. ③

A=1/8oz, $1.40 **B**=1/4oz, $2.40 **C**=1/2oz, $4.00 **D**=1oz, $7.00
E=4oz, $22.00

Lady Godiva OG (110 days) *C. p.* Crop failure; *not available in 2012.*

1748CF Connecticut Field (115 days) *C. p.* Also known as Big Tom. Grown for jack-o'-lanterns and stock feed, gets 15–25 lb, sometimes more. Not uniform in size or shape. Heirloom grown by Native Americans, adopted by colonists before 1700, and a staple of 19th-century catalogs. Vick's offered for 10¢ an oz. and 50¢ per lb in 1877. *Ripens for us in good years, but often we must pick green.* ②

A=1/4oz, 80¢ **B**=1/2oz, $1.50 **C**=1oz, $2.50
D=4oz, $5.50 **E**=1lb, $20.00 **K**=5lb, $95.00

Howden (115 days) *C. p.* For years Howden's symmetrical fruits with hard ridged skin and thick flesh have set the standard for large round jack-o'-lanterns. Far less likely to set lopsided fruit than Connecticut Field. Large, spreading vines produce 4–6 fruits per plant, typically weighing 20–35 lb, yet often able to ripen fully in our climate. "Just a plain good old dependable Jack O," sums up Anne Elder. Developed by John Howden in Massachusetts and introduced by Harris Moran in 1973. Tolerant to BR.

1751HW Howden ②

A=1/8oz, $1.00 **B**=1/4oz, $1.80 **C**=1/2oz, $2.80 **D**=1oz, $5.00
E=4oz, $10.00 **K**=1lb, $34.00

1752HO Howden OG ICS-certified. ①

A=1/8oz, $1.30 **B**=1/4oz, $2.40 **C**=1/2oz, $3.80 **D**=1oz, $7.50
E=4oz, $16.00 **K**=1lb, $58.00

1757BM Big Max (120 days) *C. max.* These are big pumpkins. Not big enough to compete in the giant pumpkin contests (you'd need Dill's Atlantic Giant, not offered by us) but certainly sufficient for exhibiting in your county fair or for displaying as an awe-some jack-o'-lantern. Typically weighs 50–100 lb. and measures up to 70" in circumference! ②

A=1/4oz, $1.00
B=1/2oz, $1.90
C=1oz, $3.60
D=4oz, $7.00
E=1lb, $26.00
K=5lb, $125.00

"I'm a web developer, and I love your online ordering system. But, I'd like to see more and bigger photos! Bring on the plant porn!"
—Henry Kingman, Winnemucca, NV

GAMBOLING GOURDS

All gourds are open-pollinated. Gourds come in two major categories (Luffa is a third). The small ones are *Cucurbita pepo* var. *ovifera* also known as ornamental gourds for their variety of shapes, colors and surfaces. These vigorous viners will usually mature in our climate if direct-seeded. The larger ones are *Lagenaria siceraria* or hardshell gourds, named from the Greek *lagenos,* a flask, and *sicera*, an intoxicating drink. *Lagenaria*, though lacking the color range of their smaller cousins, fascinate with their magical shapes. Because of their long season they must be started indoors in our climate. To improve germination, sandpaper or clip off the radicle end and soak the seed. They resent transplanting and will grow slowly for a few weeks. Once they take off these rampant crawlers are noted for their enormous foliage, more velvety in texture than that of other cucurbits, and their large white almost luminous night-blooming flowers. Heavy feeders, they will take up huge amounts of garden space unless trellised. If you cut off the spent female flowers daily, they make an excellent, albeit malodorous, flowering vine.

1908TD Tennessee Dancing Gourd (93 days) *C. p.* var. *ovifera* This delightful conversation piece will put a good spin on your gourd program. Anyone who sees these tiny 2–3" adorable green-and-white striped bottle gourds falls in love with them. They generated quite a buzz at our Common Ground Fair booth exhibit. We thank Jeremiah Gettle of Baker Creek Seeds for introducing them into commerce. He got them from Junior Gordon of Primm Springs, TN. Kids in Tennessee used to bring them to school as toys. They spin just like a top. Rampant vines are extremely prolific producers of the small fruits. Hard shells dry to tan color. ②
A=1/8oz, $2.00 **B**=1/4oz, $3.60 **C**=1/2oz, $7.00 **D**=1oz, $13.00 **E**=4oz, $45.00

1912SM Small Ornamental Mix (95 days) *C. p.* var. *ovifera* Eight kinds of early-maturing types, with small spoon, bicolored pear, and small orange most prevalent. ②
A=1/8oz, $1.50 **B**=1/4oz, $2.60 **C**=1/2oz, $4.50 **D**=1oz, $8.00 **E**=4oz, $26.00

1939PW Professional Small Warted Mix (95 days) *C. p.* var. *ovifera* A balanced assortment of flats, rounds, short pears, pears and spoons in a variety of solid, striped and bicolor patterns. Yellows, greens, oranges and whites make a bright display. We love them, warts and all. ②
A=1/8oz, $1.50 **B**=1/4oz, $2.60 **C**=1/2oz, $4.50 **D**=1oz, $8.00 **E**=4oz, $26.00

1952CT Shenot Crown of Thorns (95 days) *C. p.* var. *ovifera* Small gourds with pointed ribs that look like teeth. Sometimes called Ten Commandments because the finger-like projections always number ten or Ghost Gourd because of their white cream color and weird shape. Kids love to paint on their smooth surfaces for Halloween decorations. ②
A=1/8oz, $1.50 **B**=1/4oz, $2.60 **C**=1/2oz, $4.50 **D**=1oz, $8.00 **E**=4oz, $26.00

How to Produce a Luffa Sponge

When luffas are ripe their skins turn brown and dry and stems turn yellow. Check your plants frequently and harvest only ripe gourds. Full-sized fruit that are still green produce soft, fine-textured sponges that don't last. After the first killing frost remove any nearly ripe gourds to a warm well-ventilated place to allow them to dry. Gourds left wet for long will readily discolor.

If the luffa has just ripened, gently squeeze and pop its skin. Break the blossom end cap and pull the vascular bundle (that's the sponge!) up the side of the gourd like a zipper. The sponge will pop out, wet and white. Quickly rinse it in water to prevent oxidation.

If gourds are too dry to pop the sponge out, ret them (thoroughly soak in water) for several days until the skin sloughs off leaving only the spongy fiber. After retting, shape and dry the sponge. Remove seeds either before or after retting. We found it easy to do before retting: cut open the larger end of the gourd and either shake or rinse out the seeds. If you wish to whiten the sponges, bleach by soaking either in a 10% bleach solution or in hydrogen peroxide. Rinse luffas thoroughly in clean water and dry before use.

1957AW Autumn Wings (100 days) *C. p.* var. *ovifera* These are to gourds as the 1957 Cadillac was to cars. They have a double set of fins or wings. The car makers claimed aerodynamic advantages for their design; the gourd makers make no such assertion. Both the gourd and the car are highly conspicuous. Autumn Wings' colors, a vivid mix of greens, yellows, creams and whites, make them even more so. Some of these gourds are straight necked and others are curved. They vary in size, too, although most are 6–8" in length. We stop short of claiming them to be the Cadillac of gourds, but bet they'll make a good roadside stand attraction. ②
A=1/8oz, $2.10 **B**=1/4oz, $4.00 **C**=1/2oz, $6.50 **D**=1oz, $11.00 **E**=4oz, $40.00

1962LU Luffa (110 days) *Luffa ægyptiaca* May be more closely related to the cucumber than to the hardshell Lagenaria. Also known as Dishrag Gourd, dried and used for making bath sponges. Some folks pick them young, steam and panfry them. In addition to being a scrubber and a comestible, this versatile gourd has been used to make soundproof wall boarding, to insulate army helmets, to stuff mattresses and saddles and even to make filters for steam engines and diesel motors! *Caution: Luffa requires a long season. Start indoors and culture like melons.* We recommend trellising if you want your luffas to remain straight. ②
A=1/8oz, $1.20 **B**=1/4oz, $2.00 **C**=1/2oz, $3.60 **D**=1oz, $6.00 **E**=4oz, $16.00

1963SG Speckled Apple (110 days) *Lagenaria siceraria* A prime specimen on exhibit at the 1999 Common Ground Fair won our hearts. Shaped like a Red Delicious apple blown up to three times normal size, these gourds sit up on four points with dimples in between. Mostly green with some white splotches. ②
A=1/8oz, $1.60 **B**=1/4oz, $3.00 **C**=1/2oz, $5.20 **D**=1oz, $9.50 **E**= 4oz, $28.00

1966LB Large Bottle or Birdhouse (120 days) *L. s.* Rampant crawling vines produce large gourds with bulbous base and narrow neck, usually with a bulge at the stem end. Grow 14" tall and up to one foot in diameter. Green rind turns white or starts to brown upon maturity. When dried, make durable bottles or birdhouses. ②
A=1/8oz, $1.50 **B**=1/4oz, $2.60 **C**=1/2oz, $4.50 **D**=1oz, $8.00 **E**=4oz, $26.00

1968SP Speckled Swan (120 days) *L. s.* Common Ground fairgoers gawked at these show-stealers in Jack Kertesz' demonstration garden. Every year at our booth they admire Swan's beautiful dark-green surface with very pale green 1" splotches that bleed like strokes from a paintbrush. Large round 8–10" base tapers into graceful long neck, sometimes straight, sometimes arched, capped by a small bulb near the stem that looks like a swan's head. ②
A=1/8oz, $1.60 **B**=1/4oz, $3.00 **C**=1/2oz, $5.20 **D**=1oz, $9.50 **E**=4oz, $28.00

1974CC Corsican Canteen (125 days) *L. s.* Sets 3–6 fruits per plant, shaped like an old-fashioned canteen with height of 3 1/2" and a 7" diameter, some larger. Will make lovely lidded bowls. Originally from Native Americans in New Mexico. ②
A=1/8oz, $1.40 **B**=1/4oz, $2.50 **C**=1/2oz, $4.50 **D**=1oz, $8.00 **E**=4oz, $24.00

1990BS Bushel (135 days) *L. s.* Shaped like a large bowl with a pot lid on it. Can grow enormous given sufficient heat, but in Maine will probably max out at 18" across. *Caution: requires a long season to mature.* To improve your chances limit each vine to one fruit. Prune to halt vine growth after it sets its first fruit. ②
A=1/8oz, $1.40 **B**=1/4oz, $2.50 **C**=1/2oz, $4.50 **D**=1oz, $8.00 **E**=4oz, $24.00

Curing Lagenaria Gourds is Easy.

Hardshell gourds are 90% water at harvest. They need to be cured or dried, a slow process of evaporation through the outer shell, which is covered by a thin ivory-green skin. Curing can take 6 weeks to 1 year (average time 4 months) depending on gourd size, thickness of shell, weather and storage conditions.

Immature gourds (that have not developed a thick shell) will rot after harvest. Mature gourds are large and weighty. To cure, store off the ground in a well-ventilated room or unheated outbuilding. For a smooth beige surface, scrape off the outer skin after it loosens and darkens. (Freezing and thawing loosens the outer skin.) Outer skin, if left on, may become moldy; mold-patterned skin will dry to the gourd shell and can be sanded off, painted over or incorporated into the decoration.

Open-pollinated CARROTS *Daucus carota*

1/8 oz packet sows 35 ft; 1 oz 280 ft. Carrots average 18,000 seeds/oz with significant variations among varieties. Very hardy. Early carrots can be sown by late April. Can take up to 3 weeks to germinate; keep rows from drying out for faster emergence. Sow carrots for winter storage in mid-late June. Thinning is critical: At 3" high thin to 1/2" apart, at 6" thin again to 1" apart.

Minimal germination temperature 40˚, optimal range 60–85˚, optimal temperature 80˚, emergence takes 17 days at 50˚, 10 days at 59˚, 6 days at 77˚, 48% normal seedlings at 41˚, 96% normal at 68˚.

2018TP Tonda di Parigi (55 days) A round Parisian-type carrot that we prefer to the old Thumbelina. At 1 1/2" Tonda is slightly longer than Thumbelina with deep orange color and improved taste. Tondas are best harvested when they are young and tender and very sweet. Enjoy them cooked to maximize their sweetness and to elicit their superb creamy texture. The easiest carrot to grow if you have heavy clay soil. 19th-century heirloom from Paris. ②

A=1/8oz, $1.20 **B**=1/2oz, $4.00 **C**=1oz, $7.00 **D**=4oz, $22.00 **E**=1lb, $80.00

2024AM Amsterdam #2 (55 days) Amsterdam's slender tapered 6–7" roots are longer, less stubby and develop better color at a younger stage than Minicor's. Ideal for succession plantings of baby carrots throughout the summer, provided they are given adequate moisture. Not particularly sweet but with a carroty sharpness that leaves a pleasant taste sensation. Crisp and tender with a small core. ②

A=1/8oz, $1.20 **B**=1/2oz, $4.00 **C**=1oz, $7.00 **D**=4oz, $20.00 **E**=1lb, $70.00

2042SN Scarlet Nantes (68 days) This old-time favorite Nantes variety with bright orange roots averaging 6–7" proves that good quality is not always expensive. Sweet with a small dark core. Received a high overall score in the 2005 Oregon State University trials. Customers ordered nearly 5,000 packets and 240 lb. of seed making it our best-selling carrot in 2011. ②③

A=1/8oz, 80¢ **B**=1/2oz, $2.50 **C**=1oz, $4.00 **D**=4oz, $8.00 **E**=1lb, $19.00 **K**=5lb, $90.00

Nantes Fancy OG (68 days) No crop; *not available in 2012.*

2058RC Red Cored Chantenay (70 days) According to William Woys Weaver, this heirloom originated in France around 1879 and "needs no improvement." Produces 5–7" thick red-orange roots that have had excellent carroty flavor in our September taste tests. Dependable performer does well in heavy soils. ②

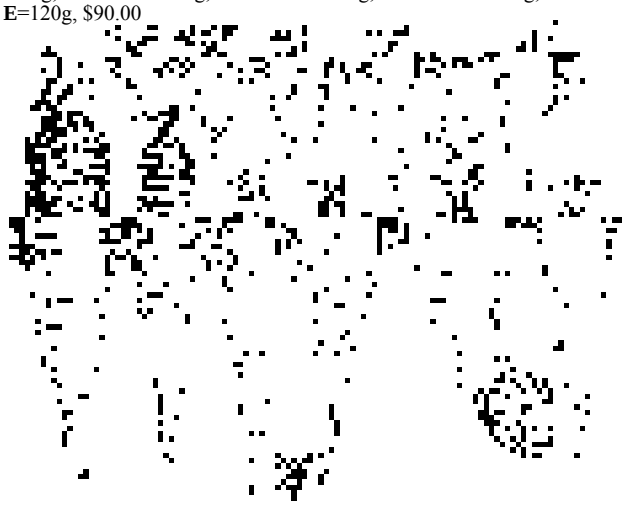
A=1/8oz, 80¢ **B**=1/2oz, $2.50 **C**=1oz, $4.00 **D**=4oz, $8.00 **E**=1lb, $19.00 **K**=5lb, $90.00

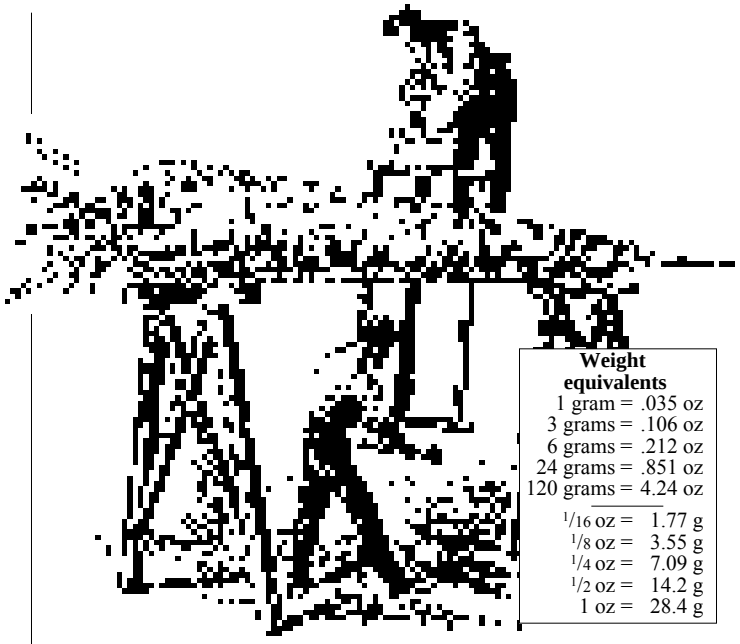
2063YS Yellowstone (72 days) "Delighted by the many colors of carrots you sell now. Each has its own flavor (and its own complement of antioxidants). I can't tell you how happy they make me in the cold heart of winter glowing on my plate," exults Hillary Nelson. An example of this diversity, Yellowstone boasts a crisp clean flavor that has shown up well in our recent taste tests. Big-shouldered roots with large greenish-yellow cores grow up to 8" long, averaging 7". Productive in a wide variety of soils. Research shows that yellow carrots contain xanthophylls, pigments similar to beta carotene, that help develop healthy eyes and may help prevent lung and other cancers. ④

A=1g, $1.80 **B**=3g, $4.20 **C**=6g, $7.50 **D**=24g, $20.00 **E**=120g, $90.00

2068AO Atomic Red OG (74 days) Atomic Red is really red with a hint of purple on the outside of the 4–6" cylindrical roots. Slice it open to rings of color, the red rind giving way to a deep orange interior with a lighter core. Even the stems and tops show red. Roots taste mild and sweet when raw. Keeps its color when cooked and develops a yummy carroty sweetness with no harshness. But taste is pure bonus. Color packs the wallop here, color that could make your sales explode. Susceptible to P. CCOF-certified. ③

A=1g, $1.80 **B**=3g, $5.00 **C**=6g, $8.00 **D**=24g, $20.00 **E**=120g, $90.00





Weight equivalents	
1 gram =	.035 oz
3 grams =	.106 oz
6 grams =	.212 oz
24 grams =	.851 oz
120 grams =	4.24 oz
1/16 oz =	1.77 g
1/8 oz =	3.55 g
1/4 oz =	7.09 g
1/2 oz =	14.2 g
1 oz =	28.4 g

2073SK Shin Kuroda 5" (75 days) Over the years we've enjoyed several strains of the stump-rooted Japanese Kuroda-type carrots that are so popular in Asian markets. *Shin* means 'new' in Japanese. Tender sweet Shin Kuroda scored high in our October taste test, and also impressed us with its bright orange color. These Kurodas, a refinement of the old Chantenay type, do well in a wide range of soil and weather conditions. ②

A=1/8oz, 80¢ **B**=1/2oz, $2.50 **C**=1oz, $4.00 **D**=4oz, $8.00 **E**=1lb, $19.00 **K**=5lb, $90.00

2076DO Danvers OG (75 days) The original Danvers Half-Long was developed by market gardeners in Massachusetts in 1871. This modern refinement features 7" conical orange roots that taper to a point. Easier to grow in heavy soils than the longer more refined types. Broader at the top and more fibrous than the Nantes varieties. Outstanding for cooking and winter storage. CCOF-certified. ③

A=1/8oz, $1.20 **B**=1/2oz, $4.00 **C**=1oz, $7.50 **D**=4oz, $16.00 **E**=1lb, $58.00 **K**=5lb, $280.00

2078JD Jaune du Doubs (78 days) I like this 19th century French heirloom best of all the yellow carrots I've sampled, but not everyone agrees. Some are put off by its sometimes rough unrefined appearance and variable taste and texture. Well-grown it produces smooth conical 5–8" roots, yellow showing slight green shoulders and good core color. Better flavor cooked than raw and retains good color. Good storage possibilities. To avoid forked or shallow roots, work your seed bed well before sowing. The plants have the kind of dense rampant wildness that has been tamed out of the newer hybrids, so thin them more rigorously than other varieties. ②

A=1/8oz, $1.10 **B**=1/2oz, $3.50 **C**=1oz, $6.00 **D**=4oz, $12.00 **E**=1lb, $35.00

2079KO Scarlet Keeper OG (85 days) A stalwart storage carrot that has been hard to find in catalogs in recent years. These 7–9" heavy cylindrical roots with broad red shoulders, large deep orange cores and blunt tips are without peer when they come out of the root cellar in March, even though they are not our first choice for fresh fall eating. Good for juicing, too. In a taste test at our warehouse its juice quality was comparable to that of our old favorite #**2086** Mokum. Seed was grown by the Root-to-Seed method, with only the best roots from the first year's crop selected to set seed in year two. No new crop this year. We have a very limited supply of held-over seed that germinated at 86%. *Members-only special. See page 10 for how to join the co-op as a consumer member.* OT-certified. ①

A=1g, $1.30 **B**=3g, $3.20 **C**=6g, $5.50

…But I conceive the first duty of government is to protect the economic welfare of all the people in all sections and in all groups.…

…I am constantly thinking of all our people—unemployed and employed alike—of their human problems, their human problems of food and clothing and homes and education and health and old age. You and I agree that security is our greatest need—the chance to work, the opportunity of making a reasonable profit in our business—whether it be a very small business or a larger one—the possibility of selling our farm products for enough money for our families to live on decently. I know these are the things that decide the well-being of all our people.…

…I repeated to the Congress today that neither it nor the Chief Executive can afford "to weaken or destroy great reforms which, during the past five years, have been effected on behalf of the American people."…

Fireside Chat 4/14/38

Hybrid CARROTS

1 gram packet sows about 10 ft.

2086MK Mokum (48 days) Arguably the tastiest carrot for fresh eating in late spring and summer. Repeat winner of our summer taste tests. Mokum's earliness, slenderness and sweetness transcend its flaws. Blunt Amsterdam-type sizes extremely quickly with short weak tops. Should be harvested at 5–6" before the roots push out of the ground and develop green shoulders. Although not a versatile full-season carrot, Mokum merits succession planting so you can enjoy it young throughout the summer. Always the first to disappear from our spring patch. "The Mokum carrots last year did very well and were delicious," says Kevin Meehan of Graham, NC. Susceptible to ALTS at our Colrain, MA, plot in 2009 but not in 2010. ④

A=1g, $1.80 **B**=3g, $4.20
C=6g, $7.50 **D**=24g, $25.00
E=120g, $110.00

2092NL Nelson (56 days) Twin Oaks Coop in Virginia rates Nelson the best in hot weather when it is hard to get tasty carrots. Sweet carroty Nantes-type stays tender and crisp under a variety of growing conditions. Smooth and uniform, 6–7" cylindrical blunt roots with deep orange color have won the widespread endorsement of commercial growers and home gardeners. Strong tops make it suitable for summer bunching. Widely grown in Europe; the seed comes from Bejo in Holland. ④

A=1g, $1.70 **B**=3g, $4.00 **C**=6g, $7.00 **D**=24g, $25.00
E=120g, $110.00

2093YO Yaya OG (58 days) Several customers informed us that Yaya is the endearing Greek term for grandmother. Not yet a grandma in the carrot world, relatively new Yaya is in the same quality class with Mokum and Nelson, a standout three straight years in our observation plots. Slightly shorter-rooted than Nantes Fancy but more flavorful. A little smoother and more uniform than Nelson. Strong tops, good for bunching. Crisp clean sweet carrot flavor. Can be used for baby or full-sized carrots. Showed some tolerance to ALTS in our 2009 MA plot. In their blind taste test covering two seasons, Katie and Joel Wolpert of Belington, WV, found that Yaya had superior flavor all through the summer until Thanksgiving compared to #**2092** Nelson. Nelson, though mediocre in the summer, turned the tables and was outstanding after Thanksgiving and into winter. SKAL-certified. ④

A=1g, $2.00 **B**=3g, $5.50 **C**=6g, $9.50 **D**=24g, $30.00
E=120g, $140.00

2094SS Sugarsnax (68 days) A 14" Sugarsnax? We've heard some boasts and seen some pictures. If you have the tilth, we have the carrot. We thought an Imperator carrot with flavor was an oxymoron until we met Sugarsnax, a fresh-market standout with long slender beautiful deep orange roots ideal for bunching. In average conditions more likely to grow 9" than 14. Outstanding in trials and taste tests, it has a tender sweetness that keeps you coming back for more. Tolerant to ALTS, CLS and P. ⑤

A=1g, $1.50 **B**=3g, $3.50 **C**=6g, $6.50 **D**=24g, $18.00
E=120g, $80.00

2096PH Purple Haze (70 days) We like 2006 AAS winner Purple Haze much better than Purple Dragon. Enhanced by a texture almost as refined as the best orange carrots, it has none of Dragon's harshness. Purple with orange stretch marks and a vivid orange core, Haze will really draw crowds to your stand. Though its raw flavor is average, it improves with cooking, despite losing some of its color. The 7" tapered roots store fairly well. This first purple Imperator-type carrot may make you want to kiss the sky! ④

A=1g, $2.40 **B**=3g, $6.50 **C**=6g, $11.00 **D**=24g, $38.00
E=120g, $180.00

2097WS White Satin (70 days) Satin is by far the best white carrot we've trialed. Hillary Nelson says its classic 8" roots are "some of the most perfect looking carrots I've grown—straight and long," with the ideal carrot shape in a pleasing creamy white. Sweet and crunchy when eaten raw, it has none of the wild carrot taste or hairiness typical of other white carrots. When cooked it is sweet and mild with a smooth texture. Develops 1" green shoulders when mature. Medium core. ④

A=1g, $2.40 **B**=3g, $6.50 **C**=6g, $11.00 **D**=24g, $38.00
E=120g, $180.00

2099OR Over the Rainbow Mix (48-75 days) If there's a better carrot mix than this one, it must be somewhere over the rainbow, way up high. We took a good formula called Rainbow Mix, especially strong in the lighter shades of yellow and orange, and boosted it with our own choice of dark orange, purple and red varieties. In doing so, we sacrificed some of the uniformity that our European supplier was careful to maintain, so not all the roots are perfectly slender and tapered. But oh the colors! ④

A=1g, $2.40 **B**=3g, $6.50
C=6g, $11.00 **D**=24g, $38.00
E=120g, $180.00

BEETS

Beta vulgaris

⅛ oz packet sows 20 ft, 1 oz about 160 ft. All open-pollinated except #2121. Hardy. Can be sown almost as soon as ground can be worked. Thin by harvesting greens with baby beets. Beets left to mature to full size should be at least 3" apart. Minimum germination temperature 40˚, optimal range 60–85˚, optimal temperature 77˚, emergence takes 17 days at 50˚, 10 days at 59˚, 5 days at 77˚, highest % of normal seedlings at 77˚.

Early Wonder Tall Top (48 days) Selected for earliness from Crosby's Egyptian and introduced in 1911. Quick emergence in cold soil and attractive purple tops make Wonder the choice for early beet greens and bunching beets. Both home gardeners (scarfed up 3,350 size-A) and commercial growers (bought 224 1-pounders and 12 5-pounders) like Early Wonder. In their 1916 catalog F.H. Woodruff & Sons of Medford, CT, claimed to be the largest beet-seed growers in the U.S. and the originators of Early Wonder.

2108EW Early Wonder Tall Top ②③

A=⅛oz, 80¢ **B**=½oz, $1.20 **C**=1oz, $2.20 **D**=4oz, $4.00
E=1lb, $12.00 **K**=5lb, $55.00

2109WO Early Wonder Tall Top OG CCOF-certified. ③

A=⅛oz, $1.00 **B**=½oz, $1.80 **C**=1oz, $3.30 **D**=4oz, $7.50
E=1lb, $25.00 **K**=5lb, $120.00

2121RO Red Ace OG (50 days) F-1 hybrid. Sweet early season beet with purple tops. Market growers appreciate its uniformity and perfect shape, which is very similar to Early Wonder but more refined. 108 lb. of seed is on hand at our warehouse now so early orders will be filled without back-orders. Tolerant to CLS. PA-certified. ⑤

A=⅛oz, $2.00 **B**=½oz, $6.00 **C**=1oz, $10.00 **D**=4oz, $36.00
E=1lb, $140.00

2128GO 3 Root Grex OG (54 days) The genius of Alan Kapuler at work, this is an interbreeding mix of three heirlooms: Yellow Intermediate, Crosby Purple Egyptian and Lutz Saladleaf. Eight years ago it absolutely wowed me in the trial, and the next year got raves at our Common Ground Fair booth. There are three distinct colors in this gene pool: a pinkish red with some orange in it, a bright gold, and a beautiful iridescent orange. We were impressed by the unusual vigor, glowing colors and length of these gradually tapered elongated roots. The Lutz influence manifests in their size, as much as 3½" across and 7–8" long. "Saved our market when the other beets didn't germinate as expected. Its name doesn't do it justice," concludes Scout Proft of E. Dorset, VT. ICS -certified. ①

A=⅛oz, $1.50 **B**=½oz, $4.00 **C**=1oz, $7.00 **D**=4oz, $22.00
E=1lb, $80.00

Chioggia (55 days) Also known as Bassano, for the Venetian hill town in which it originated. Has been cultivated in the States since the 1840s, was listed by Fearing Burr in 1863, and offered by Vick's for 75¢ per lb. in 1877. Beautiful when sliced, this heirloom home-garden type attracts attention in the kitchen with its alternating interior rings of pink and white. Noteworthy also for its light red exterior color, green tops and exceptional sweetness. It loses quality when it gets large.

2136CH Chioggia ②

A=⅛oz, $1.00 **B**=½oz, $1.80 **C**=1oz, $3.40
D=4oz, $8.50 **E**=1lb, $24.00

2137CO Chioggia Guardsmark OG WA-certified. ⑤

A=⅛oz, $1.50 **B**=½oz, $4.00 **C**=1oz, $7.00
D=4oz, $20.00 **E**=1lb, $72.00

"It's the highlight of my winter when (1) I get my Fedco catalog and (2) get my seeds."
—Ann Surette, Readfield, ME

2144GO Golden Detroit OG (55 days) Sweet and delicious golden beets. Better size, vigor, taste and disease resistance than Burpee's Golden Beet. Despite its name, does not have the classic round Detroit shape. Instead, more elongated like a pyramid. No green shoulders. CCOF-certified. ③
A=1/8oz, $2.00 **B**=1/2oz, $6.50 **C**=1oz, $12.00
D=4oz, $36.00 **E**=1lb, $140.00

2149TO Touchstone Gold OG (55 days) The most refined and reliable golden beet. Much more dependable germination and uniformly round roots than others we've tried. Resists zoning. Like other golden beets, retains its color when cooked with the sweet flavor prized by aficionadoes. Performed well even when overcrowded in my trial. Takes the guesswork out of growing golden beets, "The first gold beet that's ever done well for us," reports Janine Welsby. Short crop; *not available in larger sizes, 8 oz. limit.* WA-certified. ⑤
A=1/8oz, $1.80 **B**=1/2oz, $6.20 **C**=1oz, $11.00
D=4oz, $38.00

2156CY Cylindra (56 days) Also known as Forono and Formanova, this cylindrical beet, good for pickling or processing, grows 6" long. Roberta rates them the darkest and least fibrous of our beets. Heirloom from the 1880s, originally from Denmark. ②
A=1/8oz, 80¢ **B**=1/2oz, $1.30 **C**=1oz, $2.20
D=4oz, $4.50 **E**=1lb, $14.00 **K**=5lb, $65.00

Lutz Green Leaf (60 days) No Lutz crop again; *not available this year.* Oh, those biennial seed crops!

2182DD Detroit Dark Red Short Top (60 days) "New varieties come and go, but the Detroit Dark Red, year after year maintains its popularity and holds its place right at the top of the list of good midseason varieties," asserted Stark Bros. catalog in 1921. Introduced 1892 and still the standard late variety for home gardeners and canners. Globular smooth uniform beets with tender oxblood-red flesh. This Short Top strain had the best roots in our evaluation. ②
A=1/8oz, 80¢ **B**=1/2oz, $1.20 **C**=1oz, $2.20 **D**=4oz, $4.00
E=1lb, $12.00 **K**=5lb, $55.00

Bull's Blood (60 days) Prized for its spectacular leaves, not its rough flattened globe-shaped roots. Runaway winner of the 26 varieties in our beet greens trial, sweet with never a hint of oxalic aftertaste. Also clear winner in appearance, with large glossy reddish-purple leaves. No bull, it holds quality all summer, with color intensifying as it grows, especially under cool conditions in fall or under winter cover. Bull's Blood is Eliot Coleman's red leaf of choice for winter harvest salad mixes (see p. 230 of *The Winter Harvest Handbook* #**9876**). Old variety; its name hints of nineteenth-century origins when beets were known as blood turnips. Selected around 1840 from the French variety Crapaudine for darkest-colored leaves.

2186BB Bull's Blood ②
A=1/8oz, $1.00 **B**=1/2oz, $2.20 **C**=1oz, $4.00 **D**=4oz, $9.00
E=1lb, $30.00

2187BO Bull's Blood OG An improved strain with nice dark foliage, tender and sweet. PA-certified. ⑤
A=1/8oz, $1.40 **B**=1/2oz, $3.20 **C**=1oz, $5.50 **D**=4oz, $16.00
E=1lb, $50.00

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—Adam Mackie, Dixon, NM

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RADISHES *Raphanus sativus*

1/8 oz packet sows 12½ ft, 1 oz 100 ft. Radishes average 2,500 seeds/oz. **All open-pollinated except** #**2264** Saisai Leaf and #**2282** Shinden Risoh. Represented in ancient Egyptian hieroglyphics. Were part of the diet of the pyramid builders 2,700 years ago. Hardy. Can be sown early. Summer radishes easy to grow, quick to ripen and go by; make succession plantings. Require thinning to at least 2" for attractive uniform roots. Daikon and winter radishes take longer to mature, hold longer, require only one planting and need to be thinned to 6" apart. Pinch the tops if winter radishes start to bolt. According to William Woys Weaver in *100 Vegetables and Where They Come From,* radishes were viewed in the 18th century as great relievers of the common cold, powerful fortifiers of digestion, and useful in breaking down kidney stones.

Minimum germination temperature 40˚, optimal range 55–85˚, optimal temperature 85˚, emergence takes 11 days at 50˚, only 4 days at 68˚, 76% normal seedlings at 50˚, 97% normal at 59˚.

See also #**6402** Cherry Belle discontinued strain.

2214CB Cherry Belle (25 days) A good smooth red-skinned bunching radish making balls 3/4" across with firm white flesh. Offering a new, more uniform, strain. 1949 AAS. ②③
A=1/8oz, 80¢ **B**=1/2oz, $1.20 **C**=1oz, $2.00 **D**=4oz, $4.00
E=1lb, $9.50 **K**=5lb, $45.00

2224EE Easter Egg (25 days) These good-sized delicious radishes do not become woody, hollow or too hot. Nor do they bolt easily. Kids and adults love this fascinating blend which comes in shades of pink, purple, red, violet and white. Always our most popular radish. ②⑤
A=1/8oz, $1.10 **B**=1/2oz, $2.00 **C**=1oz, $4.00 **D**=4oz, $8.00
E=1lb, $26.00

2234CH Champion (25 days) Smooth scarlet roots with firm mild flesh grow quickly to edible size. 1957 AAS. Some variation in our observation plots.②
A=1/8oz, 80¢ **B**=1/2oz, $1.20 **C**=1oz, $2.00
D=4oz, $4.00 **E**=1lb, $9.50 **K**=5lb, $45.00

Hailstone (25 days) Many off-types in our 2011 lot grow-out. We have yet to find a consistent strain. *Not available in 2012.*

2248FB French Breakfast (26 days) "I didn't think they were consumed any other time than freshly plucked early in the morning as the dew still lay on the field and washed gently to spice up the breakfast table. Hopefully you've converted," avers Matthew Aamot of Custer, WA. A favorite in Paris markets since before 1879. "A medium-sized radish, olive-shaped, small top, of quick growth, very crisp and tender, of a beautiful scarlet color, except near the tip, which is pure white. A splendid variety for the table, on account of its excellent quality and its beautiful color." —From D.M. Ferry & Co's Descriptive Catalog, 1902. Gets pithy earlier than many other sorts. ②
A=1/8oz, 90¢ **B**=1/2oz, $1.40 **C**=1oz, $2.50 **D**=4oz, $7.00
E=1lb, $17.00 **K**=5lb, $80.00

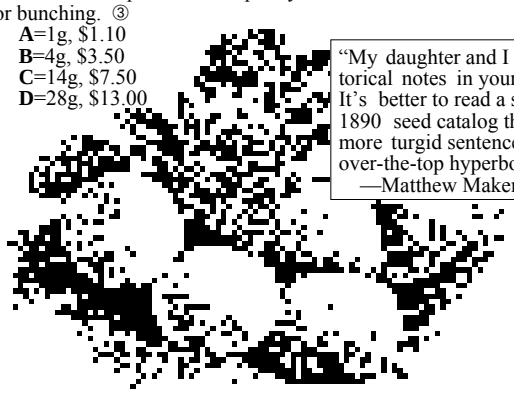
Plum Purple (26 days) A popular plum-colored round root. Crisp white flesh has a good sweet taste with only a little heat. Very uniform, true to color, almost the size of a ping-pong ball. One customer who grows radishes under row covers to avoid root-maggot damage calls Plum Purple the radish most tolerant to slightly shaded row-cover conditions.

2252PP Plum Purple ②
A=1/8oz, 90¢ **B**=1/2oz, $1.60 **C**=1oz, $2.50
D=4oz, $7.00 **E**=1lb, $22.00

2253PO Plum Purple OG Biodynamically grown but not BD certified. OT-certified. ①
A=1/8oz, $1.50 **B**=1/2oz, $4.20 **C**=1oz, $8.00 **D**=4oz, $25.00
E=1lb, $95.00

2257ZT Zlata (30 days) A new color in summer radishes! These shimmery russeted medium-sized beauties from Poland starred in our MA trial. Crunchy and crispy white interiors, spicy but not overwhelming, good fresh and even better braised. Its light-textured leaves make good young greens. Did not bolt or split and held quality even in all the June 2009 rains. Perfect for bunching. ③
A=1g, $1.10
B=4g, $3.50
C=14g, $7.50
D=28g, $13.00

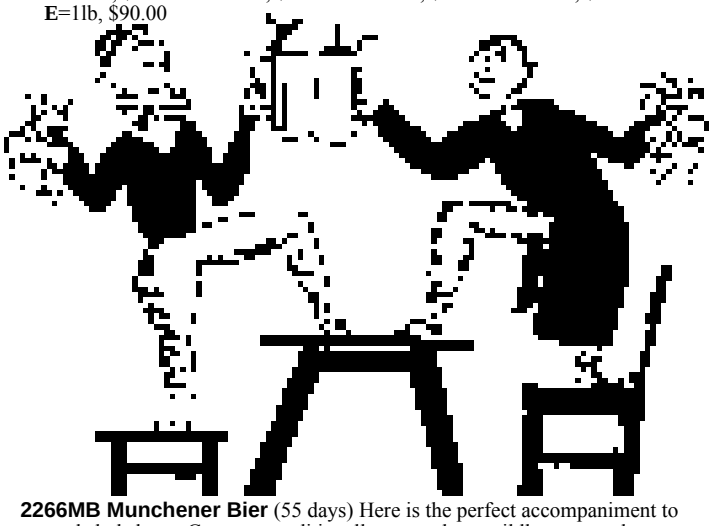
"My daughter and I liked the historical notes in your descriptions. It's better to read a scrap of an 1890 seed catalog than just one more turgid sentence packed with over-the-top hyperbole."
—Matthew Maker, Decorah, IA



2262WI White Icicle (30 days) Also known as Lady Finger, heirloom was listed by Fearing Burr as White Naples, White Italian and White Transparent. Firm tender all-white roots for the home garden will grow down 4–6" in all but the heaviest soils. Mild if harvested when young and slender, and remains in good eating condition longer than most other radishes. We have replaced our old strain that had developed too many off-types. Starks in 1924 asserted that Icicle was the most widely planted of all radishes and "absolutely unsurpassed in quality." ②
A=1/8oz, 90¢ **B**=1/2oz, $1.40 **C**=1oz, $2.50 **D**=4oz, $7.00
E=1lb, $17.00 **K**=5lb, $80.00

2264SS Saisai Leaf (35 days) F-1 hybrid. An Asian radish developed primarily to provide leaves for salads, stir-fries and pickling. Harvest the juicy pale green succulent leaves when they are young and tender. Quick growing and slow to bolt. Can be allowed to grow full-sized daikon roots for a dual use. The roots are plumper, slightly shorter and milder than Shinden Risoh with a texture that pleased Clayton Carter of Fail Better Farm. They will keep all winter in the root cellar. Plants can be densely sown if grown only for their leaves. ⑤
A=1/8oz, $1.30 **B**=1/2oz, $4.00 **C**=1oz, $7.00 **D**=4oz, $20.00
E=1lb, $60.00

2265RT Rat-tail (50 days) Grown for its tangy seed pods, not its roots. William Woys Weaver called it "the Don Juan of radishes" because it so readily crosses with all others. Introduced from Japan in 1866-67 by James J.H. Gregory. Attracts butterflies and other pollinators, making it useful in the garden even if you don't appreciate its pungent pods. Left to grow, these often are as long as rat's tails and almost as fibrous, so garden writer Barbara Damrosch advises harvesting them at "skinny bean size like a French filet bean" for maximum tenderness. The immature purplish-green pods are a delicacy in India and Asia, adding a mustardy zing to salads, stir-fries and other dishes. If you've never let a mustard or radish plant finish, you might be surprised to learn they will grow to 5' and branch out as they set seed, so give them plenty of room. Damrosch suggests staking or trellising them for ease of picking; tomato cages work well. Your objective is not a small root, but a copious supply of pods. ⑤
A=1/8oz, $1.60 **B**=1/2oz, $6.00 **C**=1oz, $10.00 **D**=4oz, $25.00
E=1lb, $90.00



2266MB Munchener Bier (55 days) Here is the perfect accompaniment to a good dark beer. Germans traditionally serve these mildly pungent large white tapered roots sliced thin and salted to go down with their brew, but the radishes are equally good sautéed and then salted. Gives a double harvest because the tender 2–3" aerial seedpods are good in salads and stir-fries. ②
A=1/8oz, $1.40 **B**=1/2oz, $5.00 **C**=1oz, $9.00 **D**=4oz, $25.00
E=1lb, $80.00

2267GM Green Meat (55 days) Unique miniature daikon radish with striking lime-green flesh grows 6–9" long and 1–3" wide. The above-ground exposed shoulders blush a deep green while the tips remain white. Fine-grained, crisp and sweet. Carter says it has a "distinct green-apple flavor." Asians use it for salads, cooking and pickling. David Nonnenmacher suggests trying a slice on home-made bread slathered with butter. He says Green Meat and #**2268** Misato Rose keep in the root cellar until May.⑤
A=1/8oz, $1.50 **B**=1/2oz, $5.00 **C**=1oz, $8.00 **D**=4oz, $28.00
E=1lb, $100.00

2268MO Misato Rose OG (60 days) Also known as Chinese Red Heart radish, described in its native land as *xin li mei*, meaning 'in one's heart beautiful.' These are of two types. About half have light greenish-tan outer skins and light green stems and leaf veins. The remainder have medium rose outer skins, rose stems and leaf veins. The roots on each type have the characteristic rose flesh, the ones with the darker skins having darker more pungent meats. Both are fine tasting and good looking, with plenty of spiciness, a rich sweet vegetable undertone and no harsh sharpness. Will grow as large as a big beet if given sufficient space. For autumn crops, a good keeper. MT-certified. ①
A=1/8oz, $1.40 **B**=1/2oz, $5.00 **C**=1oz, $8.00 **D**=4oz, $24.00
E=1lb, $80.00

2270BS Round Black Spanish (65 days) Venerable Black Spanish has been traced back to the sixteenth-century conquistadors. Turnip-shaped 4" roots with corklike black exteriors have pungent white flesh which loses some heat when boiled or stir-fried. Can be stored like carrots and beets in slightly moistened sand in the root cellar. ③
A=1/8oz, 80¢ **B**=1/2oz, $1.20 **C**=1oz, $2.00 **D**=4oz, $3.80
E=1lb, $10.00 **K**=5lb, $46.00

2282SR Shinden Risoh (68 days) F-1 hybrid. Daikon grows long straight roots, crisp with a full hot flavor. Cooking softens the texture, and mellows the heat. This type showed the best uniformity and the least tendency to bolt in our observation plots. *Daikon* means 'big root' in Japanese. Long cylindical 2 1/2 lb. roots are capable of penetrating 20" in friable soils. Resistant to yellow wilt and virus. ⑤
A=1g, $1.10 **B**=4g, $3.20 **C**=14g, $7.00 **D**=28g, $11.00

OTHER ROOTS

BURDOCK *Arctium lappa*

2300TG Takinogawa (120 days) Open-pollinated. Culture like carrots, working the soil deeply, direct-sowing in spring and thinning to 3–6". Harvest in fall or early next spring. Treasured by the Japanese, who call its long fleshy aromatic taproot *gobo*. Takinogawa is the standard Japanese variety, setting 1–2' mild earthy-tasting bittersweet roots. Small roots are peeled and used in salads, larger roots are good in stir-fries and soups. Burdock has a long history of use as a medicinal as well. Herbalist Deb Soule says that burdock root, whether eaten or used in a tea or tincture, nourishes the liver and kidneys, balances the appetite and digestion, and is useful in anti-cancer remedies. Burdock roots and seeds are also used in combating skin diseases. Think about that the next time you run into burdock as a common farmyard weed dispensing its ubiquitous nuisance burrs. ①
A=1/8oz, $1.40 **B**=1/2oz, $4.50 **C**=1oz, $8.00 **D**=4oz, $26.00
E=1lb, $90.00

ROOT PARSLEY *Petroselinum crispum*

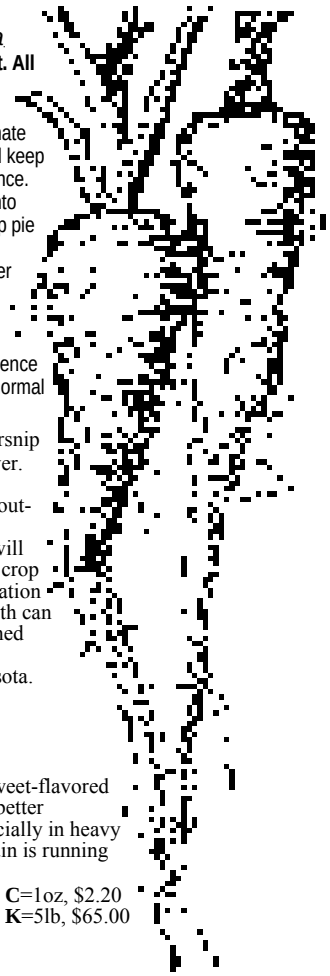
2301AR Arat (88 days) Open-pollinated. Enhance your soups and specialty dishes with these nutty-flavored roots redolent of a parsley-celery combination. Arat is sweeter and more uniform than Hamburg. These roots are whoppers: they fill out well and grow almost a foot, benefiting from a deeply worked seed bed. You can sustain a harvest through much of the winter and possibly into spring if you protect them. The young flat parsley leaves also add zest. ④
A=1/16oz, $1.80 **B**=1/8oz, $3.20 **C**=1/2oz, $12.00 **D**=1oz, $20.00
E=4oz, $76.00

PARSNIPS *Pastinaca sativa*

1/8 oz packet sows 25 ft, 1 oz about 200 ft. All open-pollinated. Seed is short-lived; if you are planning to use old seed, germ test in paper towels before sowing. Slow to germinate (14–21 days). Prepare a deep seedbed and keep it moist with frequent watering until emergence.

One of the best for grating and stuffing into eggrolls, strudels and veggie pies. A parsnip pie is an amazing treat. Harvest some parsnips after frost for late fall delights. The remainder will taste even sweeter in the spring after overwintering in the ground!

Minimum germination temperature 35˚, optimal range 55-70˚, optimal at 65˚, emergence takes 27 days at 50˚, 14 days at 68˚, 89% normal seedlings at 68˚, only 77% normal at 77˚.



2306DO Andover OG (120 days) Parsnip aficionadoes will welcome back Andover. They know that we've had a hard time obtaining seeds in recent years for this outstanding variety that was an absolute knockout in our trials. This year there will be no late disappointments because the crop is confirmed and achieved 90% germination in our October test. Those with good tilth can anticipate consistent production of refined tapered cylindrical roots 12–14" long. Developed by the University of Minnesota. OT-certified. ①
A=1/8oz, $1.60 **B**=1/2oz, $4.20
C=1oz, $8.00 **D**=4oz, $25.00
E=1lb, $90.00

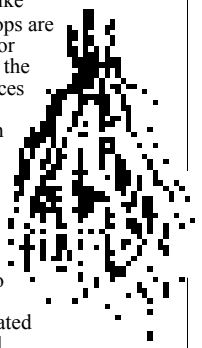
2310HA Harris Model (120 days) Sweet-flavored smooth tapered roots average 10". For better performance, prepare raised beds, especially in heavy soils. Don't believe stories that this strain is running down. It looked great in our plots. ②③
A=1/8oz, 80¢ **B**=1/2oz, $1.30 **C**=1oz, $2.20
D=4oz, $5.00 **E**=1lb, $14.00 **K**=5lb, $65.00

SCORZONERA *S. hispanica*

2322NR Noir de Russie (120 days) Open-pollinated. *Scorzonera* derives from the Spanish *corteza negra* or 'black bark.' Long narrow dark-skinned white-fleshed root is a good source of iron, phosphorus and calcium. Although not handsome, it is prized by gourmet cooks in Europe who call it the oyster plant for its distinctive flavor, and use it like potatoes in *haute cuisine*. Much of the flavor resides in the dark skin which should not be peeled before cooking. Has a firm smooth texture, not sweet like many root vegetables. Culture like parsnips, overwintering in the field and pulling as needed. Flavor improves after a hard frost. Has only limited storage in root cellars, nor does it can or freeze well so use right after harvest. Seed is short-lived; germ test old seed in paper towels before sowing. ②

A=1/8oz, $1.30 **B**=1/2oz, $3.50 **C**=1oz, $6.00 **D**=4oz, $20.00 **E**=1lb, $75.00

SKIRRET *Sium sisarum*



2327KO Skirret OG (120 days) Open-pollinated. If you like parsnips, you'll probably love skirret. Both of these root crops are ready for harvest in fall, but are customarily overwintered for sweet treats in spring. Both are so hardy that they can stand the toughest winters. Both have a sweet nutty flavor that enhances cold-weather pies. Skirret makes a bundle of swollen greyish-white roots from the crown, each much thinner than a parsnip. It has an affinity for wet or boggy land where most other vegetables do not like to grow. Root formation is longest and straightest in sandy soil. Given adequate moisture, roots will grow up to 1' long. The widest will be almost the diameter of a pinkie. Culture like celery, starting indoors 8–10 weeks before setting out, or direct seed in spring. It can take spring frosts and transplants well. Thin to 1' apart as the umbelliferous plants will grow 3–6' and need staking if you wish to save seed. Skirret can also be propagated from root cuttings. Good eaten raw in salads, baked, stewed, braised, batter-fried, or used in soups, stews and curries, a versatile addition to your cuisine. MOFGA-certified. ①

A=0.2g, $1.00 **B**=1g, $2.50 **C**=4g, $8.00

TURNIPS & RUTABAGAS

1/8 oz packet sows almost 40 ft, 1 oz about 300 ft. All open-pollinated except #2377 Oasis. ~9,000 seeds/oz. Hardy members of Crucifer family. Thinning is critical for full-sized roots. Turnips have a shorter growing season and are not as cold-hardy or as good keepers as rutabagas. Turnips are best picked before they get large and fibrous. Rutabagas, also known as Swedish turnips or Swedes, form enlarged roots above ground with a finely branched system below.

Minimum germination temperature for turnips 40˚, optimal range 60-95˚, optimal temperature 75˚, 79% normal seedlings at 50˚, 98% normal at 59˚.

See also **#6403** American Purple Top Rutabaga.

2372WE White Egg Turnip (45 days) *Brassica rapa* A staple of seed catalogs throughout most of the 19th century. Henderson in 1902 praised its perfectly smooth skin and snowy white flesh. Roots are egg-shaped, grow rapidly half out of the ground, ideal for early market bunching before they attain full size. The flesh is very sweet, so mild they can be eaten raw fresh from the garden. Good keeper; flavor intensifies in storage. ②③

A=1/8oz, 70¢ **B**=1/2oz, $1.30 **C**=1oz, $2.20 **D**=4oz, $4.50 **E**=1lb, $8.50 **K**=5lb, $40.00

> …American industry has searched the outside world to find new markets—but it can create on its very doorstep the biggest and most permanent market it has ever seen. It needs the reduction of trade barriers to improve its foreign markets, but it should not overlook the chance to reduce the domestic trade barrier right here—right away—without waiting for any treaty. A few more dollars a week in wages, a better distribution of jobs with a shorter working day will almost overnight make millions of our lowest-paid workers actual buyers of billions of dollars of industrial and farm products. That increased volume of sales ought to lessen other costs of production so much that even a considerable increase in labor costs can be absorbed without imposing higher prices on the consumer…. Fireside Chat 10/12/37

2376GB Gold Ball Turnip (45 days) *B. r.* Listed in the *Album Vilmorin* (1854-55) as Robertson's Golden Ball, also known as Orange Jelly. Not truly orange, the skin is very smooth and yellow and the soft flesh is golden-yellow. Rather broad leaves of medium height. Although the globes reach 4–5" at full size, they achieve peak flavor and maximum sweetness at 3" in diameter. Good keeper. Maryland market grower Brett Grohsgal writes, "Gold Ball Turnip is a treasured cultivar for winter production on our farm.…after the frosts and freezes have begun, it comes into its own: produces large amounts of superbly flavored turnips 1–2" across.…Remains mild and nutty (with) a firm, near-perfect texture. Best simmered or roasted. Pleases even those retail customers who don't really like other turnips, and a strong seller with our restaurant chefs." ②

A=1/8oz, 70¢ **B**=1/2oz, $1.50 **C**=1oz, $2.50 **D**=4oz, $5.00 **E**=1lb, $8.50 **K**=5lb, $40.00

2377TR Oasis Turnip (50 days) *B. r.* F-1 hybrid. More customers asked us for the Hakurei turnip than for any other variety. In many years of searching, Oasis is the closest we've found, sharing many fine features with Hakurei: smooth round globes, refined pure white color, delicate sweet fruity flavor and crisp tender texture so suitable for salads and light cooking. Nikos rates Oasis as better than Hakurei in all these categories. Good for fall as well as early summer crops. Best harvested at bunching size, but retains quality for a while. From Takii in Japan. Tolerant to DM.⑤

A=1/16oz, $1.80 **B**=1/4oz, $5.50 **C**=1/2oz, $10.00 **D**=1oz, $18.00 **E**=4oz, $60.00 **K**=1lb, $220.00

Purple Top White Globe Turnip (50 days) *B. r.* Popular variety with purple tops, white bottoms and white flesh can attain 6" in diameter. An heirloom from before 1880. Starks claimed in 1921 that "other varieties are good, but this one stands in a class by itself." Sometimes used to feed livestock, but Eli and I like them in soups, and Joanna eats them up to golf-ball-sized with the greens.

2378WG Purple Top White Globe ②

A=1/8oz, 80¢ **B**=1/2oz, $1.20 **C**=1oz, $2.00 **D**=4oz, $4.00 **E**=1lb, $9.50 **K**=5lb, $45.00

2379WO Purple Top White Globe OG CCOF-certified. ③

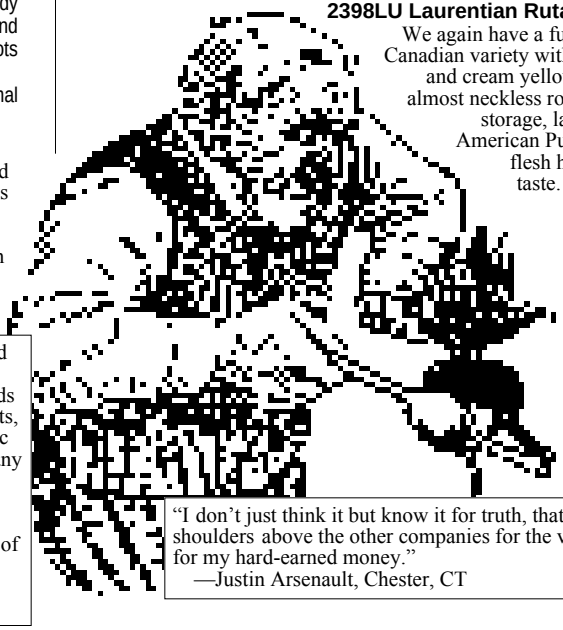
A=1/8oz, 90¢ **B**=1/2oz, $1.60 **C**=1oz, $2.80 **D**=4oz, $5.50 **E**=1lb, $17.00 **K**=5lb, $80.00

2384RR Red Round Turnip (55 days) *B. r.* Customers have asked for Ohno Scarlet Turnip, which is no longer commercially available. Instead, we offer the almost identical Red Round. Red Round's root is a little rounder than Ohno's, but with the same tennis ball size and bright red skin. Inside flesh is white with a bit of variable rose blushing. Stunning sliced on a crudité platter. ⑤

A=1/8oz, $1.40 **B**=1/2oz, $4.00 **C**=1oz, $7.00 **D**=4oz, $20.00 **E**=1lb, $68.00

2392GF Gilfeather® Turnip (85 days) *B. napus* This heirloom has come down in folklore as a turnip but is really a rutabaga, big-knobbed and bulky. Small hairy tendrils grow on its light green skin. Either developed or discovered by John Gilfeather (1865-1944) of Wardsboro, VT, in the late 1800s. Gilfeather, a lanky secretive bachelor, is said to have cut the tops and bottoms off his turnips, so that no one else could propagate them. Nevertheless, some seeds escaped to a neighbor who gave them to market growers William and Mary Lou Schmidt, who salvaged, multiplied and commercialized them. They've developed a loyal following, particularly in Vermont. Sweeter and later to mature than other turnips, not woody even at softball size, and taste better after frost. Enjoy their tender mild spineless greens as well as sweet white flesh. Listed on Slow Foods' Ark of Taste. ①

A=1/16oz, $1.50 **B**=1/4oz, $4.00 **C**=1oz, $12.00 **D**=4oz, $45.00 **E**=1lb, $150.00



2398LU Laurentian Rutabaga (95 days) *B. n.* We again have a full crop of this popular Canadian variety with a deep purple crown and cream yellow base. Uniform 5–6" almost neckless roots suitable for winter storage, larger and sweeter than American Purple Top. Pale yellow flesh has refined texture and taste. ②

A=1/8oz, 80¢ **B**=1/4oz, $1.20 **C**=1oz, $2.00 **D**=4oz, $4.00 **E**=1lb, $11.00 **K**=5lb, $50.00

> "I don't just think it but know it for truth, that Fedco is head and shoulders above the other companies for the value of what I get for my hard-earned money."
> —Justin Arsenault, Chester, CT

ALIMENTARY ALLIA *Allium* spp.

1/16 oz packet about 400-600 seeds, 1 oz 6,400-9,600. Start indoors in Feb. or March and transplant out in spring almost as soon as the ground can be worked. Set leeks 6–12" apart, onions 4–6" in trenches in well-dug beds with generous quantities of organic matter. Avoid transplanting next to grass strips; slugs love to dine on tiny allium seedlings. Irrigate seedlings whenever the topsoil dries out. Days to maturity are from date of transplanting.

For onions minimum germination temperature 40˚, optimum range 50–95˚, optimal temperature 70˚, emergence 13 days at 50˚, only 5 days at 68˚, 99% normal seedlings at 68˚, 91% at 86˚.

LEEKS *A. porrum*

All open-pollinated. Leeks have become a mainstay in our kitchens throughout the fall. Early leeks have tall shanks above ground and should be harvested before severe frosts. Hardier leeks have broader, shorter shanks and will hold till November. Leeks brought into the root cellar will survive almost all winter if heeled into dirt.

2407RO King Richard OG (75 days) Distinctive refined early leek that ruled supreme for a quarter century before being abruptly dethroned by the trade. Now back in production. Its elegant 1' upright shanks can be magnificent. We gave a Judge's Award to one such specimen at the 2011 Common Ground Fair. Ready in late August and can withstand light frosts. They should be harvested before the late October ghosts dance on those frosty moonlit nights. OT, CCOF-certified. ①②

A=1/16oz, $1.60 **B**=1/8oz, $3.00 **C**=1/2oz, $7.00 **D**=1oz, $12.00
E=4oz, $36.00 **K**=1lb, $140.00

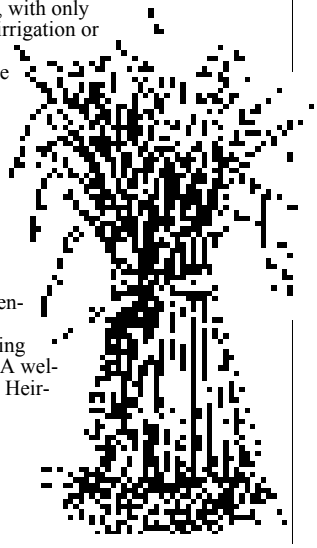
2408LN Lincoln (75 days) A leek with a dual purpose, Lincoln may be sown thickly like scallions, harvested in 50–60 days and bunched as finger-thicks for upscale direct markets and discerning chefs. Or, transplanted more conventionally, they may be allowed to grow another three weeks to full size. Shanks even longer and sleeker than King Richard's with delicate sweet leek flavor. Ready in late August, will withstand light frosts, but should be harvested before late October. ④

A=1/16oz, $2.40 **B**=1/8oz, $4.50 **C**=1/2oz, $16.00 **D**=1oz, $30.00
E=4oz, $110.00 **K**=1lb, $400.00

2411SO King Sieg OG (84 days) Beth Rasgorshek of Canyon Bounty in Idaho crossed King Richard with Siegfried Frost leek to create a versatile stable cultivar that has some of the good attributes of both. Sieg appears to have inherited the most from Siegfried. Its shanks are intermediate between the long King Richard and the short Siegfried, about 6" long but with a wonderful 3" thickness for a wide edible area. It also has some of Siegfried's delightful blue-green coloration and delayed maturity. Its growth pattern suggests it is a good candidate for overwintering. ☘2005. OT-certified. ①

A=1/16oz, $1.60 **B**=1/8oz, $3.00 **C**=1/2oz, $7.00
D=1oz, $12.00 **E**=4oz, $36.00 **K**=1lb, $130.00

2425BS Bleu de Solaize (110 days) This hard-to-find French heirloom was a noble replacement for Siegfried. So-named because its dark green leaves sometimes develop a tinge of blue during cold spells. Hardy fat medium-long shanks with mild flavor good in soups. Dates back to the 19th century. The only leek to overwinter for Adam Tomash and June Zellers. Of their 20 plants, 10–15 survived the alternating freezes and thaws of the 2005-6 Maine winter and were edible in spring, with only straw mulch for protection. "Survived without irrigation or rain for ten weeks and still were very saleable and rather tasty…thrives on neglect and we love it," says Erika Marczak of Cornell Farms in Hoosick Falls, NY. ②③



A=1/16oz, $1.70 **B**=1/8oz, $3.20
C=1/2oz, $9.00 **D**=1oz, $15.00
E=4oz, $55.00 **K**=1lb, $200.00

SCALLIONS *A. fistulosum*

Can be direct-seeded, spring or fall. For a steady market crop, seed every two weeks all season.

2439EV Evergreen Hardy White (65 days) Open-pollinated. Also known as Nebuka, a perennial bunching onion. If overwintered in the ground, develops clumps of scallions in the spring that can be harvested or divided and replanted. A welcome treat in April, one of the first fresh foods. Heirloom from Japan originated in the 1880s.②③

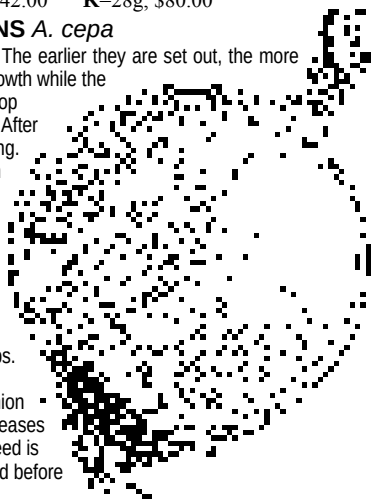
A=1/16oz, $1.20 **B**=1/8oz, $2.20
C=1/2oz, $5.00 **D**=1oz, $9.00
E=4oz, $15.00 **K**=1lb, $58.00

SHALLOTS *A. cepa* (aggretatum group)

2441PR Prisma (100 days) F-1 hybrid. A delicious long-day shallot with a strong onion flavor. Sow inside at the same time as onions and leeks or direct seed outdoors in early spring 1/2" apart in a 2–4" wide band. For clusters sow more thinly. Each seed will produce 2–5 bulbs, red-purple with a high-gloss finish and angular edges. Always ready by September 1, still rock-hard the following April, and can last even longer.④

A=0.5g, $2.20 **B**=1g, $3.60 **C**=2g, $7.00
D=4g, $12.50 **E**=14g, $42.00 **K**=28g, $80.00

ONIONS *A. cepa*



Onions are day-length sensitive. The earlier they are set out, the more chance they have to make top growth while the days are lengthening. The more top growth, the greater the bulb size. After summer solstice they begin bulbing. After half the onion tops fall, push over the remainder and harvest within a week. Field-cure in the sun about 10 days until dry, covering with a tarp in wet weather. Curing is essential for long storage. Hang sacks in a cool dry well-ventilated place, periodically removing sprouting or rotting bulbs. Onions survive light frosts.

We do not hold over hybrid onion seed because of precipitous decreases in germination. Onion and leek seed is short-lived. Retest 1-year-old seed before using. Discard anything older.

Onions are second only to tomatoes as the world's most economically important vegetable. In the United States they have a $4 billion annual retail value. While the average American eats 18.7 lb per year, Libyans consume almost four times as many per capita.

When it begins to warm up in spring, put your remaining storage onions in your refrigerator crisper. Most will keep without sprouting until your new crop is ready.

2444CW Crystal White Wax (70 days) Open-pollinated. Unlike most onions, these can be direct-seeded in spring, with the peas. Then the 1 1/2" pearly white bulbs ripen with the peas for early summer baby onions or pickles. ③

A=1/16oz, $1.30 **B**=1/8oz, $2.40 **C**=1/2oz, $4.80
D=1oz, $9.00 **E**=4oz, $16.00 **K**=1lb, $60.00

2446RM Red Marble (95 days) F-1 hybrid. When the Cipollinis are down this hard red variety is the best of its kind. Alan LePage loves how hard they are and how fast they finish. While they can be closely spaced to grow 1–2" baby red pearl onions, they can also be spread apart to make full-sized onions 2–3" across with the characteristic Cipollini flat bottoms and thin necks. A few will grow as big as 4" in fertile conditions. Dark red penetrates deep into the rings. LePage observes that unlike yellow Cipollinis, they always sell well when he displays them at farmers market. "Their stony polished red skin just shines when they are fully finished." Excellent keepers, they store till February or March. Long-day type for northern latitudes above 40°. ④

A=1/16oz, $1.50 **B**=1/8oz, $2.80 **C**=1/2oz, $8.00
D=1oz, $15.00 **E**=4oz, $55.00 **K**=1lb, $190.00

2447WW White Wing (97 days) F-1 hybrid. Although White Wing is not yet a Superstar with our customers, we think it is a good replacement for that Seminis/Monsanto variety. Round and good-looking, and 4–5 days earlier and better adapted to our climate, though not quite as sweet and a little more pungent than its predecessor. Its first bulbs were usable as early as July 26 and most tops were starting to go down by Sept. 1. Intermediate to long day-length suitable for mid-Atlantic and northern areas. ④

A=1/16oz, $1.90 **B**=1/8oz, $3.50 **C**=1/2oz, $13.00
D=1oz, $24.00 **E**=4oz, $90.00 **K**=1lb, $350.00

2449YO New York Early OG (98 days) Open-pollinated. Superior strain of Early Yellow Globe selected for storage until early spring. New York Early was maintained by Orange County, NY, commercial onion growers. Very firm mild yellow onions may be eaten raw in salads or sandwiches. They average 2 1/2–3" across and store longer than Early Yellow Globe. Adapted from 38° latitude to southern Quebec/Ontario. OT-certified. ①

A=1/16oz, $1.60 **B**=1/8oz, $3.00 **C**=1/2oz, $7.00
D=1oz, $12.00 **E**=4oz, $36.00 **K**=1lb, $140.00

2454EX Expression (98 days) F-1 hybrid. We are pleased that Expression is back in stock. In the software world a "regular expression" is a computer code that searches for patterns in text. In the horticultural world, though, there's nothing regular about this Expression. No searching is necessary to recognize its pattern of earliness, intermediate to long day-length (suitable for middle Atlantic and northern areas), heft (the large globes average about 12 oz.) and flavor (sweet). "Sweet and juicy," says trialer Donna Dyrek. Bred by Bejo for high yields in rich clay loamy soils in the Northeast and Pennsylvania. Short to medium storage. PR tolerance. ④

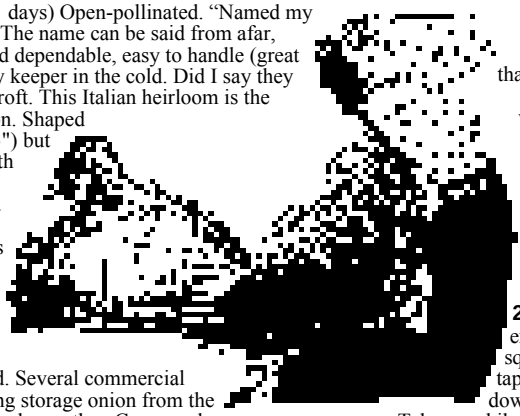
A=1/16oz, $1.90 **B**=1/8oz, $3.60 **C**=1/2oz, $14.00
D=1oz, $26.00 **E**=4oz, $100.00 **K**=1lb, $360.00

2472CP Copra (104 days) F-1 hybrid. These rock-hard yellow-skinned medium-sized onions with blocky round shapes and thin necks have become the standard storage onion for commercial growers and homesteaders. Very sweet in storage and one of the last to sprout. Market grower Jason Kafka has found that Copra is more drought-tolerant than other varieties. Adaptation: 38° latitude and north. ④

A=1/16oz, $1.80 **B**=1/8oz, $3.40 **C**=1/2oz, $12.00 **D**=1oz, $22.00
E=4oz, $80.00 **K**=1lb, $310.00

Clear Dawn OG/BD (104 days) No grower: *not available in 2012.*

2477BC Borrettana Cipollini (105 days) Open-pollinated. "Named my farm work dog after Cipollini onions…The name can be said from afar, she's beautiful at all stages, is sweet and dependable, easy to handle (great for our senior-share cooks), and an easy keeper in the cold. Did I say they are both delectable too?!" asks Scout Proft. This Italian heirloom is the quintessential boiling and braising onion. Shaped like a button, up to 4" wide (normally 3") but less than 1" thick. Flattened spheres with shiny golden skin slightly brighter than Copra's. Fine-grained mild flesh with a well-developed flavor. Appreciated in soups, stir-fries and shish kebab. Braids beautifully and keeps till late winter. Adapted to 38° latitude and north. ②



A=1/16oz, $1.50 **B**=1/8oz, $2.80
C=1/2oz, $6.50 **D**=1oz, $11.50
E=4oz, $40.00 **K**=1lb, $150.00

2479PR Prince (105 days) F-1 hybrid. Several commercial growers requested Prince, an outstanding storage onion from the same breeder as Copra. Prince is slightly larger than Copra and stores almost as long. A long-day type adapted to northern latitudes, Prince features classy uniform blocky large globes with vigorous tops that finish off to refined necks. Its satiny brownish-yellow skins adhere well even after long storage. ④

A=1/16oz, $2.20 **B**=1/8oz, $4.00 **C**=1/2oz, $15.00 **D**=1oz, $28.00
E=4oz, $110.00 **K**=1lb, $400.00

2484AC Ailsa Craig (110 days) Open-pollinated. Also known as Exhibition. The onion made famous by Jason Kafka. Usually he produces tons of 1–3 lb. onions from this variety, achieving yields well in excess of 1 lb. per row foot and production multiples that Wall Street can only dream about. Ailsa is the onion to grow for the Exhibition Hall of your county fair. The enormous slightly oval pale straw-colored globes are sweet, mildly pungent and store but a short while. A cross between Danvers Yellow and Cranston's Excelsior introduced by David Murray in 1887, Ailsa Craig was named after Ailsa Crag, a small steep-sided island off the west coast of Scotland. Adapted to 38° latitude and north. ④

A=1/16oz, $2.00 **B**=1/8oz, $3.80 **C**=1/2oz, $14.00 **D**=1oz, $26.00
E=4oz, $100.00 **K**=1lb, $360.00

2485RT Rossa Lunga di Tropea (110 days) Open-pollinated. My father helped design torpedos in World War II, but none like this, the famous Italian heirloom torpedo onion. The name means Long Red of Tropea, and Tropea, in Calabria near the southern tip of Italy, is the site of a famous onion festival every August. Elongated like torpedos, these are thin-skinned glossy maroon bulbs with lighter interiors that slice easily into even rings. Sweet, mild and delicious for fall enjoyment. Plants died back in the first week of October for Donna Dyrek, will finish earlier if started indoors Mar. 1. Excellent bunched fresh for farmers market in midsummer. Restaurant chefs love them for grilling or braising. Though we do not rate it as a winter keeper, it was still rock hard on Jan. 18 for Elaine Gambone of Plymouth, VT. Intermediate-long day for middle latitudes: 35–48°. ②

A=1/16oz, $1.40 **B**=1/8oz, $2.40 **C**=1/2oz, $5.50 **D**=1oz, $9.00
E=4oz, $25.00

2488VS Varsity (110 days) F-1 hybrid. Rah Rah Rah! Sis Boom Bah! Rooting (pun intended) for this Varsity is easy because it is the champion large storage onion every year—big, early, uniform and hard. Sits down in mid-September. Bulbs up to 1 1/2 lb. (12-16 oz. average) are nearly as big as Ailsa Craig, with a nice round shape and few doubles, and they store as well as or better than Copra. If Dyrek could have only one storage onion, she would choose this one. Put Varsity in your starting lineup and prepare to go deep into next year's spring play-offs! ②

A=1/16oz, $1.80 **B**=1/8oz, $3.20 **C**=1/2oz, $12.00
D=1oz, $22.00 **E**=4oz, $80.00 **K**=1lb, $310.00

2489DO Dakota Tears OG (112 days) Open-pollinated. Another Dave Podoll breeding coup, Dakota Tears was more than 20 years in the making. Though you might cry when you cut one open—their flavor is robust and oniony—you won't be weeping about their impressive production of very hard yellow bulbs with medium-thick necks averaging 1 lb. each with no doubles. These matured in late September from an early April start (March would be a more appropriate starting date in our latitude) and stored well for Donna Dyrek. Holli Cederholm of Proud Peasant Farm says hers keep till May under good storage conditions. ☘2009. ics-certified. ①

A=1/16oz, $1.50 **B**=1/8oz, $2.80 **C**=1/2oz, $8.00
D=1oz, $15.00 **E**=4oz, $52.00

2490RM Rossa di Milano (114 days) Open-pollinated. This excellent red Italian storage onion is shaped like a buttercup squash without the button. It has the flat square-shouldered top tapering like a barrel to a narrower flat bottom. Tops slow to go down, encourage the recalcitrant ones by pushing them over. Takes a while in fall to dry. Very hard and keeps a long time, till May for Cederholm. Long-to-intermediate-day type. ②

A=1/16oz, $1.40 **B**=1/8oz, $2.40 **C**=1/2oz, $5.50 **D**=1oz, $9.00
E=4oz, $25.00

2491RW Redwing (116 days) F-1 hybrid. Kafka's favorite onion, achieving an average size of 12-16 oz. and yields in excess of 1 lb. per row foot in good seasons. They like wet springs followed by warm/hot summers and plenty of nitrogen, finishing nicely in the 3rd week of September. Very hard globe-shaped 3–4" bulbs with deep purple-red glossy skin keep almost as well as Copra. Rated the ultimate red storage onion. "Great taste on the grill," says Elaine Carlson of Cape Porpoise, ME. *Caution: because of its long season, may not grow well in some cool or coastal areas.* Adapted to 43° latitude and north. ④

A=1/16oz, $2.20 **B**=1/8oz, $4.00 **C**=1/2oz, $15.00 **D**=1oz, $28.00
E=4oz, $110.00 **K**=1lb, $420.00

2493RB Red Bull (118 days) F-1 hybrid. No bull, Red Bull is one good storage onion. These ultra-hard large red globes will keep until May. Shinier and darker than Rossa di Milano and red through and through. 3–4" roots with strong tops average 8 oz. Dyrek rates her Red Bull as very red, very big and very nice. They are stubborn about quitting growing and often won't sit until Oct. 1 so *may require too long a season for northerly areas.* ④

A=1/16oz, $2.10 **B**=1/8oz, $4.00 **C**=1/2oz, $14.00 **D**=1oz, $26.00
E=4oz, $100.00 **K**=1lb, $390.00

2498WW Walla Walla Sweet Spanish (125 days) Open-pollinated. Said to have originated in the French island of Corsica and been brought to Washington by a French soldier, this onion became famous in the Pacific Northwest for its juicy sweet flavor. In Walla Walla, WA, it can be wintered over. In our harsher zone, it must be sown in the spring for fall harvest. These large onions are renowned for their mild flavor as soon as they come out of the ground. They do not store. Adapted to 35°-55° latitudes. ①

A=1/16oz, $1.40 **B**=1/8oz, $2.40 **C**=1/2oz, $5.50 **D**=1oz, $9.00
E=4oz, $24.00

SPINACH *Spinacia oleracea*

¼ oz packet sows 30–50 ft, 1 oz plants 120–200 ft. Very hardy. Must be planted as soon as the ground can be worked in the spring to avoid early bolting. For fall crop try late Jul–Aug sowing; to overwinter, sow late Aug–Sept. Heavy nitrogen requirements, but avoid applying high-nitrogen fertilizers shortly before harvest to prevent high nitrate levels in the leaves. Pick large leaves often for heavier production.

Popularized by the Popeye cartoons in the '30s and '40s ("I'm strong to the finish because I eat my spinach"). Evidently, Popeye was a little ahead of his time. According to the USDA, annual consumption of spinach increased 66% between 1992 and 2002, and per capita it has multiplied more than sevenfold since 1975! Smooth-leaved spinach is easier to wash than the semi-savoyed type, and is increasingly preferred as attested by the rip-roaring 2005 debut of #**2510** Space. Heat, crowding and long day-length (over 14 hours) trigger premature bolting. To retard bolting, avoid hot-weather planting, use wider spacing and irrigate or use shade cloth.

Minimum germination temperature 35˚, optimal range 45–65˚, optimal temperatures 55–60˚, emergence takes 23 days at 41˚, 12 days at 50˚, only 5 days at 77˚, however 91% normal seedlings at 50˚, 82% at 59˚ but only 52% at 68˚ and a mere 28% at 77˚. Spinach seed will not germinate in soil temperatures above 85˚.

2504BX Bordeaux (21 days baby, 32 days mature) F-1 hybrid. A rapid-growing early-maturing first spinach for garden and greenhouse featuring arrow-shaped smooth dark green red-veined leaves of sweet and delicate flavor. Stems are also red, but turn green when cooked. "Small bolted greens add…quick…color to…dull mesclun. The flower buds can also be used in a braising mix with…pea shoots," suggests VT grower Proft. "Has performed in spectacular fashion—especially in the winter hoop house," chimes in John Curtis of MaComb, IL. Bolts very quickly so not for the main crop, but really shines in autumnal fields where it remains tender even when it gets big. ⑤

A=¼oz, $1.20
B=½oz, $2.20
C=1oz, $4.00
D=4oz, $8.00
E=l1b, $25.00

2510SP Space Spinach (37 days) F-1 hybrid. The Russians won phase one of the space race with their 1957 launch of Sputnik. Space won the spinach race with its spectacular 2005 launch in our catalog. We sold more than 5,100 packets last year, just over a quarter ton of seed. Space may be at the final frontier of spinach breeding. As one trialer put it, "Along with Olympia it dusted all the others." Space produces the kind of vigorous big thick wavy mostly smooth slightly savoyed leaves that market growers love and restaurant chefs adore. Sown at normal spring-planting time it will stand at least two weeks. Vigorous at all times, it was the quickest to mature from a fall planting. Upright growth results in good clean dark-green leaves with a juicy sweet taste. Resistant to DM1,2,3. ❄ ④

A=¼oz, $1.10 **B**=½oz, $2.00 **C**=1oz, $3.50
D=4oz, $7.00 **E**=1lb, $22.00 **K**=5lb, $95.00

…Yesterday I submitted to the Congress of the United States a seven-point program, a program of general principles which taken together could be called the national economic policy for attaining the great objective of keeping the cost of living down. I repeat them now to you in substance:
(1) First. We must, through heavier taxes, keep personal and corporate profits at a low reasonable rate.
(2) Second. We must fix ceilings on prices and rents.
(3) Third. We must stabilize wages.
(4) Fourth. We must stabilize farm prices.
(5) Fifth. We must put more billions into War Bonds.
(6) Sixth. We must ration all essential commodities, which are scarce.
(7) Seventh. We must discourage installment buying, and encourage paying off debts and mortgages. Fireside Chat 4/28/42

2512LY Olympia (38 days) F-1 hybrid. For the middle ground in spinach and in politics. No Snowe job here, Olympia, our spinach, like our Senator, is an outstanding performer for the fall crop, strong into November and even early winter but not as hardy as # **2558** Winter Bloomsdale. She grows fast, producing enormous yields of mostly smooth leaves up to 5x6" almost entirely lacking in oxalic acid taste so her mild flavor goes down easily. But Olympia can't stand the heat, and bolts quickly when planted in spring. Resistant to DM1,2,3 and Obamacare. ❄ ②

A=¼oz, $1.10 **B**=½oz, $2.00 **C**=1oz, $3.20 **D**=4oz, $7.00
E=1lb, $22.00 **K**=5lb, $95.00

Bloomsdale (42 days) Open-pollinated. The standard crinkled-leaf spinach. Very good cold soil emergence. Much better as a fall crop than in spring when it bolts in the heat. Recent hybrids surpass it in production and bolt resistance. David Landreth, founder of the Landreth Seed Company, developed the original Bloomsdale Spinach, forerunner of this type. ❄

2540LS Bloomsdale ②

A=¼oz, 80¢ **B**=½oz, $1.20 **C**=1oz, $2.00 **D**=4oz, $4.00
E=1lb, $12.50 **K**=5lb, $58.00

2541BO Bloomsdale OG OT, CCOF-certified. ①③

A=¼oz, $1.10 **B**=½oz, $2.00 **C**=1oz, $3.50 **D**=4oz, $12.00
E=1lb, $45.00 **K**=5lb, $210.00

Tyee (44 days) F-1 hybrid. What do you sow when mud season turns overnight to summer as it so often has in recent years? Tyee is the only spinach that has any chance when the heat comes on fast, outperforming other savoyed types both in yield and holding ability. This dependability has long made it our favorite crinkled-leaf spinach and accounts for its widespread appeal among both home gardeners and commercial growers. A spinach for all seasons. Upright habit. Tolerant to DM1,3. ❄

2550TY Tyee ②

A=¼oz, $1.10 **B**=½oz, $2.00 **C**=1oz, $3.50 **D**=4oz, $9.00
E=1lb, $27.00

2551TO Tyee OG No new crop. We have 87 lb. on hand at 89% germ. *Order early!* WA-certified. ⑤

A=¼oz, $1.30 **B**=½oz, $2.40 **C**=1oz, $3.80

2555GW Giant Winter (45 days) Open-pollinated. Selected for its cold hardiness. Recommended for late fall crops, winter greenhouse crops, or overwintering under mulch. Large medium-green semi-savoyed leaves. "Giant Winter is a favorite…We plant it in September, and in our unheated greenhouse it easily survives the few 0 ° nights of January and comes on strong all through the early spring," says Michael Goldman of Florence, MA. ❄ ②

A=¼oz, $1.30 **B**=½oz, $2.40 **C**=1oz, $3.80 **D**=4oz, $9.00
E=1lb, $26.00

2558WO Winter Bloomsdale OG (47 days) Open-pollinated. Dark green deeply savoyed leaves are slower growing with a more spreading habit than other varieties. Recommended for early spring and fall plantings because it tolerates temperature extremes better than some hybrids. Ideal for wintering over. Resistant to CMV and blue mold. **BACK!** ❄ OT-certified. ①

A=¼oz, $1.40 **B**=½oz, $2.50 **C**=1oz, $4.00
D=4oz, $12.00 **E**=1lb, $45.00 **K**=5lb, $200.00

2592NZ New Zealand Spinach (52 days) *Tetragonia tetragonioides* Open-pollinated. Discovered in New Zealand in Queen Charlotte's Sound during Captain Cook's 1770 voyage. Don't be fooled by the spinach in its name; this is not a true spinach. Doesn't look like one or taste like one, though some find it an acceptable substitute because it stands through the hot summer when true spinach bolts. Chefs have discovered that it is a very good green baked, especially in lasagna. Soak the nut-like seeds before sowing to speed and improve germination. Be patient and don't give up too soon. Only a few plants are needed to fill in your patch because Tetragonia sprawls. Irrigate frequently and pick often to keep the leaves tender and succulent and avoid yellowing. Will withstand frosts to the low 20s. ②

A=¼oz, 90¢ **B**=½oz, $1.70 **C**=1oz, $3.20
D=4oz, $6.00 **E**=1lb, $19.00 **K**=5lb, $90.00

❄ = Season-extending variety, hardy through part of the winter. See list on page 57 for more information.

LETTUCE *Lactuca sativa*

1 gram packet sows 25 ft; 2 grams 50 ft; 1 oz 500–700 ft. Varieties average 875 seeds/1g pkt, or 1,750 seeds/2 g packet. All lettuce is open-pollinated. May be started indoors in March and at regular intervals thereafter, or sowed outdoors as soon as ground can be worked. Most varieties won't germinate in soil temperatures above 75˚. Hardy. All save icebergs tolerate heavy frost. Grow best in cool weather with ample moisture, many kinds suffer bottom rot and tipburn in heat; select summer varieties carefully. Use shade cloth to keep summer lettuce tender and sweet longer.

Desire an early spring lettuce crop without work? Allow your succession planting for fall to go to seed! It lends beauty to the fall garden and will give you wonderful early greens in all but the coldest locations.

Best time to harvest lettuce? Shortly after dawn. USDA research has shown that lettuce leaves contain almost double the sugars at 7 am as at 2 pm.

Sow every 2 weeks for continuous supply. Lettuce will not head unless thinned frequently and ruthlessly to final distance of 1'. Heavy nitrogen feeders.

Minimum germination soil temperature 35˚, optimal range 40-80˚, optimal temperatures 70-75˚, emergence takes 15 days at 41˚, 7 days at 50˚, 3 days at 68˚, 99% normal seedlings at 77˚ but only 12% normal at 86˚.

LOOSELEAF and OAKLEAF

2712BO Black Seeded Simpson OG (42 days) The earliest and most popular looseleaf variety. "One of our absolute favorites for early season production with heads up to 16" diameter," says New York State market lettuce grower Lisa Bloodnick. Large loose crumpled juicy light-green leaves slightly ruffled and blistered. Inner leaves tender and well blanched. Does not stand heat well; sow as early as the ground can be worked. Probably originally from England circa 1850, this heirloom was introduced by Peter Henderson & Co. of New York around 1875. CCOF-certified. ③

A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $3.00 **D**=28g, $5.00
E=112g, $11.00 **K**=448g, $38.00

2713GO Green Ice OG (45 days) Customers asked us to list Burpee's well-known variety. This shiny crinkly looseleaf with fringed leaf margins is firm and crunchy in salads. Slow to bolt, but gets tough in the centers. A Burpee advertisement from the March 1974 issue of *Organic Gardening and Farming* revealed that Green Ice, a cross between a compact butterhead type and large looseleaf varieties, was thirteen years in the making before commercialization. Was the first variety patented under the 1970 Plant Variety Protection Act. Its PVP has since expired. OT-certified. ②

A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $5.00 **D**=14g, $12.00
E=28g, $20.00 **K**=112g, $70.00

2716YM Yu Mai Tsai (45-60 days) From Taiwan, also known as Sword Leaf or Pointed Leaf lettuce, distinguished by its long thin sword-shaped bright green frilly leaves often snipped, bundled and banded at Chinese markets where it is referred to as "a choy". Best harvested at an early stage when the leaves and stems are tender and crispy. Nikos really liked its bitter and robust flavor, quite different from typical American lettuce. A very popular vegetable green in Taiwan and often used in Cantonese cuisine. Good in salads, soups, stews and stir-fries. Vigorous grower bolts in hot weather, but adapted to late summer and early fall plantings. En garde! ③ **NEW!**

A=1g, $1.00 **B**=2g, $1.80 **C**=4g, $3.30 **D**=14g, $7.00
E=28g, $11.00 **K**=112g, $25.00

2719BO Bronze Arrowhead OG (46 days) This Arrowhead scores a bullseye for form and color, developing a gorgeous oakleaf rosette in a dance of green and bronze. Introduced as Bronze Beauty by the Germania Seed & Plant Co, this bronze was given a bronze by the AAS judges in 1947. A good variety for mesclun and cut and come again culture. Very slow to bolt. OT-certified. ①

A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.50 **D**=14g, $6.50
E=28g, $12.00 **K**=112g, $45.00

Salad Bowl (46 days) Bright-green frilly notched leaves form compact rosette. Stands heat better than Black Seeded Simpson, but at its best in cool weather, not summer. 1952 AAS bred by Ross Thompson of the USDA. Has survived outside temperatures of 18° double-covered under Agribon 19.

2722SB Salad Bowl ②③

A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.20 **D**=28g, $3.40
E=112g, $6.00 **K**=448g, $17.00 L=5lb, $80.00

2723SO Salad Bowl OG CCOF-certified. ③

A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $3.20 **D**=28g, $5.50
E=112g, $12.00 **K**=448g, $44.00 L=5lb, $210.00

Red Salad Bowl (46 days) Compact frilly rosettes of spectacular bronze-red oakleaves. Red at tips and on young growth, green at the base of the leaves. Nice buttery flavor. One of our most popular lettuces. A staple mesclun ingredient. Grows quite large in cool weather, but prone to bitterness and bolting in heat. Withstood outdoor temperatures of 14 ° double-covered under Agribon 19. Introduced in 1955.

2728RS Red Salad Bowl ②

A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.20 **D**=28g, $3.40
E=112g, $6.00 **K**=448g, $17.00 L=5lb, $80.00

2729RO Red Salad Bowl OG CCOF-certified. ③

A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $3.20 **D**=28g, $5.50
E=112g, $12.00 **K**=448g, $44.00 L=5lb, $210.00

2731CO Cracoviensis OG (47 days) My absolute favorite of all the lettuces Seed Savers curator M. Schultz shared with me, unlike any other in size, shape or colors. Cracoviensis is where the red meets the green, making a dazzling twisting rosette with heavy purple accenting, especially towards the center. Plants grow fast and very large. Relatively rapid bolters, but their tender buttery flavor doesn't give way to bitterness even after they bolt. Customers in New Jersey and Massachusetts have reported success overwintering it. Listed as a distinct type, Asparagus Lettuce, in *The Vegetable Garden* by Vilmorin-Andrieux (1885). Highly prized in China where they peel and eat the thick fleshy stems like asparagus. ☙1996. OT-certified. ①

A=1g, $1.20 **B**=2g, $2.20
C=4g, $3.50 **D**=14g, $6.50
E=28g, $13.00 **K**=112g, $48.00

2732GO Strela Green OG (47 days) From Alan Kapuler via Schultz. This lettuce arrested our attention in the 2004 trials. We had never seen anything quite like its large star-shaped rosette of rough-textured green leaves which Nikos likened to donkey ears. According to Schultz, "pointed spear-shaped leaves erupt from the center like an explosion, spectacular and decorative." Sweet and without bitterness, Strela performed well in summer plantings, withstanding meager heat waves with aplomb. OT-certified. ①

A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $5.20
D=14g, $8.00 **E**=28g, $12.00 **K**=112g, $40.00

2738AO Antares OG (48 days) A shimmery pink and bronze oakleaf growing vigorously to magnificent size. The extra-frilled finely cut bright leaves are colorful and tender, not bitter even in early July. Antares puts on a terrific show especially when started indoors, transplanted early in spring, and allowed ample space. Bred by Frank Morton of Wild Garden Seed in Oregon out of a combination of # **2722** Salad Bowl and # **2865** Rouge d'Hiver. OT-certified. ①

A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2740DO Green Deer Tongue OG (48 days) Also known as Matchless, this venerable heirloom goes all the way back to the 1740s. One of the only deer tongues you will ever want to see in your garden! Characteristic thick green pointed leaves radiating from a compact center. Slow to bolt. Has a rich nutty flavor that doesn't turn bitter. "Hearty, light, fun in the mouth," says our trialer. OT-certified. ①

A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.50 **D**=14g, $6.50
E=28g, $12.00 **K**=112g, $40.00

2744RO Really Red Deer Tongue OG (48 days) We revered the old Red Deer Tongue for its history and its classic leaf shape, but not for its pallid color and vulnerability to diseases. Morton combined the old-timer with his own creation, Hyper Red Rumple Waved, to develop a whole series of Really Red breeding lines. Morton has re-selected his gene pool for the deep red color, pronounced white-green contrasting veins and characteristic pointed deer tongue leaves that attracted us initially. Now a more finished variety with much less variation, a stunning improvement over the original Red Deer Tongue. From Hyper comes heightened resistance to SC, DM, X and TB. Although not among the best summer lettuces, RRDT stands heat better than its forbears and does not bolt as readily. ☙2005. OT-certified. ①

A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2754PZ Prizehead (48 days) Crinkly outer leaves tinged with red. Superior flavor. Very popular market type. Bloodnick says "grows large and heavy in spring, not so big in summer." Anne Elder reports it has produced the "heaviest heads we've ever grown in 23 years." Bolts in heat. Listed 1873 by D.M. Ferry & Co. and offered by Burpee under the name Tomhannock in 1886. ②

A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.20 **D**=28g, $3.40
E=112g, $6.00 **K**=448g, $16.00

2761RO Red Sails OG (49 days) 1985 All-America winner has become almost synonymous with red leaf lettuce. A most attractive large plant with purplish red-splashed leaves, Red Sails is slow to become bitter or bolt, even in heat. 10–16" rosettes serrated with bubbled frills. Lightly crunchy lobes with a good melting texture. Handle with care, as brittle midribs break easily during washing and packing. Highest rated of 13 lettuces for vigor in OSU trial. Dependable for wholesale markets. With the PVP on this Seminis variety having run out, we commissioned our own production. Stellar NOP, CCOF-certified. ①
A=2g, $1.60 **B**=4g, $2.80 **C**=14g, $7.00 **D**=28g, $13.00
E=112g, $45.00 **K**=448g, $160.00

2763CR Della Catalogna Radichetta (49 days) A rustic Italian heirloom lettuce with deeply toothed green oakleaves of a delicate flavor like corn salad and the texture and crunch of escarole. A good variety for braising. ②
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.80 **D**=14g, $12.00
E=28g, $20.00 **K**=112g, $50.00

2764BO Blushed Butter Oaks OG (49 days) This 1997 Fedco introduction, one of a new class of lettuces developed by Morton, aroused immediate interest. Best described as a compact oakleaf butterhead, with a delightful combination of pink and green colors and a buttery taste, Blushed Butter Oaks was a hit with everyone who saw it or sampled it at our trial. Has some frost tolerance. ☙1997. OT-certified. ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $62.00

2766YO Australian Yellow OG (50 days) A new color for your salad palette! The opalescent yellow-green leaves burst out of the gate with rapid growth yet were still holding their quality on July 19 when Waldmann's had bolted. Glossy yellow in the early stages, seedlings take on more green pigmentation as they mature, with the crinkly quality of a spinach and a sweet taste augmented by the barest hint of bitter. Frank Morton's strain is the best we have found. Though Australia is more famous for its squashes, this is another worthy émigré from Down Under. **NEW!** OT-certified. ①
A=1g, $1.60 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $11.00
E=28g, $20.00 **K**=112g, $70.00

2767DO Les Oreilles du Diable OG (Devil's Ears) (50 days) One of the lovely rare treasures once maintained by the Abundant Life Seed Foundation. A standout in our plots where we greatly preferred it to the relatively pallid Red Deer Tongue. This is deer tongue with real color and good heat tolerance. Starlike rosettes of tasty glossy leaves are deeply tinged with burgundy for a shimmery appearance. We enjoyed its nutty texture and bitter-free flavor. One of the last to bolt. Biodynamically grown but not BD-certified. Stellar NOP-certified. ①
A=1g, $1.30 **B**=2g, $2.50 **C**=4g, $3.50 **D**=14g, $7.00
E=28g, $13.00 **K**=112g, $45.00

2768CO Lingua di Canarino OG (Canary Tongue) (50 days) What do you get when you combine Devil's Ears with Canary Tongue? Canary ears? Devil's tongue? Most of the Republican presidential hopefuls? All good answers, but we were thinking the beginnings of good mesclun. Lingua is a refined oakleaf that grows larger and stands longer than the original Oakleaf without bolting or getting bitter. Mild-tasting light-green 8" rosettes. Performs well in fall. Originally from Europe. OT-certified. ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.50 **D**=14g, $6.50
E=28g, $12.00 **K**=112g, $40.00

2769WL Waldmann's (50 days) Large handsome heads of bright green crinkly leaves. An attractive Grand Rapids type for market. Appearance and texture superior to Green Ice, but not as heat tolerant. Gets bitter toward mid-July. Pre-1880 heirloom. ③
A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.20 **D**=28g, $3.40
E=112g, $6.00 **K**=448g, $15.00

2771YO Royal Oakleaf OG (50 days) Darker, larger and fancier than most other green oakleaf types, and recommended for market growers. Our supplier calls it the "Rolls Royce of oakleaf lettuces." Lisa Bloodnick describes it as "a large spiky oakleaf that looks like a lettuce with a bad hair day." She finds it always sweet and considers it a "must grow." CCOF-certified. ③
A=1g, $1.00 **B**=2g, $1.80 **C**=4g, $3.20 **D**=14g, $7.00
E=28g, $11.00 **K**=112g, $32.00

2773HO Hyper Red Rumple Waved OG (50 days) If you are drawn to really deep red lettuces, consider Hyper Red. Selecting from a cross between Valeria, a very red cold-tolerant lollo rossa, and Wavy Red Cos, an undulating savoyed red romaine, Morton bred Hyper to accentuate pigmentation and ruffling. The stunning result tastes good with a pleasing texture. Holds for a while in July before succumbing to heat. Good cold tolerance. Resistant to X, SC, DM and TB. OT-certified. ①
A=1g, $1.40 **B**=2g, $2.50 **C**=4g, $4.00
D=14g, $10.50 **E**=28g, $20.00 **K**=112g, $60.00

2775FO New Red Fire OG (51 days) Offered as a substitute for Red Sails, Fire gained a well-deserved popularity with commercial growers. Has Sails' characteristic ruffled leaves, though slightly lighter coloration, and good size. Best of all, it was among the last to bolt in our lettuce patch, lasting as late as July 29! Also quite cold-hardy. Tender, sweet flavor with almost no bitterness. Stellar NOP, MCCO-certified. ①⑤
A=1g, $1.40 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2781XO Merlox Red Oak OG (53 days) Frank Morton's first release of a new class of "Merlox variations" combines the incredibly dark pigmentation of #**2789** Merlot with the superior flavor of larger Emerald Oak. The resulting showy oak leaves are an extreme deep maroon with just a hint of green in their centers, compact in form with wavy margins, and not at all bitter despite their color. Merlox shows promise as a winter lettuce. Left outdoors in Central Maine with no row cover, mulched only by a generous snow cover, 67% overwintered and were ready to eat in early May. Bred with strong horizontal resistance to DM and SC. OT-certified. ①
A=1g, $2.50 **B**=2g, $4.80 **C**=4g, $9.00 **D**=14g, $30.00
E=28g, $50.00

2783SB Slobolt (53 days) Slow early growth is the key to Slobolt's success as a summer lettuce. A Grand Rapids-type with much paler green leaves than Waldmann's, Slobolt will hold well into July without bolting. Slobolt is versatile: one grower in New York reported good results growing it in winter under lights as well as tightly spaced in his summer garden. Introduced 1946 by the USDA. ③
A=2g, $1.30 **B**=4g, $2.50 **C**=14g, $6.50 **D**=28g, $11.00
E=112g, $32.00 **K**=448g, $120.00

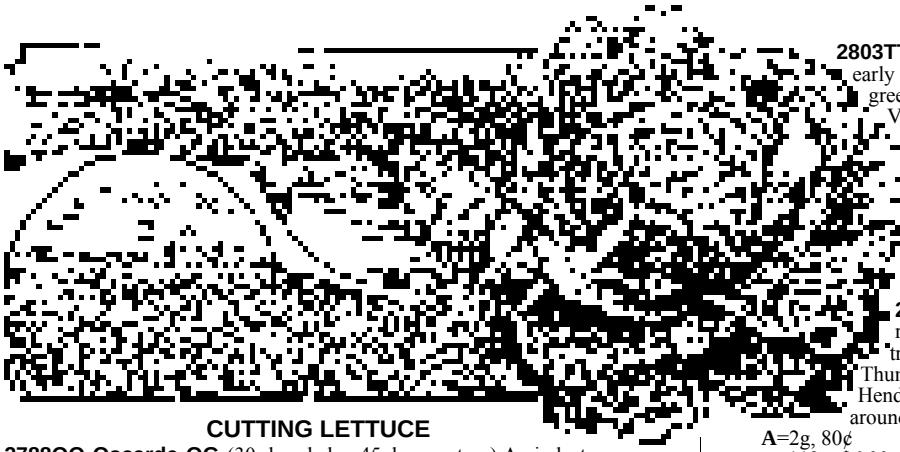
2784FO Flashy Green Butter Oak OG (54 days) Spectacular marriage of the quintessential oak leaf form with the speckling of the troutbacks. Not only beautiful but also amazingly tasty, crunchy with a delightful buttery texture. Emerald Oak crossed with Flashy Trout Back yields rich lime-green leaves with pronounced dark speckles. Truly lettuce as art form, with Morton mixing texture, color, flavor and shape like a master. OT-certified. ①
A=1g, $1.50 **B**=2g, $2.60 **C**=4g, $4.50 **D**=14g, $10.00
E=28g, $20.00 **K**=112g, $60.00

2785TO Italienischer OG (55 days) If Royal Oakleaf is the Rolls Royce of oakleaf lettuce, then Italienischer must be the Maybach (without the sticker shock!) Compared to Royal it was more vigorous with bigger outer leaves, a better taste and texture, and less bitterness. Good, juicy and mild-flavored. Schultz described it as "so big and beautiful." As with many of our favorite lettuces, we got the seed stock from her. Upright sturdy 18" bright green plants provide an incredible bounty of crisp delicious leaves. They can take some heat and are slow to bolt. Give these huge beauties plenty of space. OT-certified. ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $7.00
E=28g, $12.00 **K**=112g, $40.00

2786WO Red Tinged Winter OG (60 days) A leaf lettuce for three seasons. One of the hardiest in Turtle Tree's trials and a survivor in Roberta's overwintering test. Turtle Tree, the producer, claims seedlings can withstand –5° temperatures. Hildy Danforth of Shelburne, NH, said that "it was the best I've seen in my fall greenhouse and I've grown every lettuce with the word 'winter' in its name." Sow to mature in fall or late fall, or start in fall to overwinter and rally for major production in spring. The slightly ruffled leaves are green in the center and lightly tinged with bronze toward the tips. They turn quite bitter in heat, so not for summer production.
❄ OT-certified. ①
A=1g, $1.50 **B**=2g, $2.60 **C**=4g, $4.00 **D**=14g, $6.50
E=28g, $12.00 **K**=112g, $44.00

2787BO De Morges Braun OG (64 days) Our trialer called de Morges the "bronze beauty." Among the hundreds of lettuces we've grown, unmatched for shimmery color and smooth buttery texture. Grows upright like a romaine as it matures, the center forming a green contrast to the pink outer leaves. De Morges grows slowly, never develops bitterness and is one of the last to bolt. We owe our awareness of this unique lettuce to Schultz. OT-certified. ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.50 **D**=14g, $9.00
E=28g, $17.00 **K**=112g, $55.00

"Love the paper catalog. No gloss ever, please."
—Linda Hersey, Alanson, MI



CUTTING LETTUCE

2788OO Oscarde OG (30 days baby, 45 days mature) An industry standard, inspiring similar spin-off varieties that aren't quite as good. The classic miniature oakleaf, growing low to the ground. Its red leaves, darkest of their type in our trials, shade to bright green at their hearts. Ideal for greenhouse culture in cold weather, also a good performer outdoors in spring and fall. May be cut for mesclun or baby leaf. Resists most races of DM. Limited supply; *order early.* ❄ **NEW!** OT-certified. ①
A=1g, $2.50 **B**=2g, $4.80

2789MO Merlot OG (32 days baby, 60 mature) William Woys Weaver believes that this lettuce is destined to become a classic. Wherever he has planted it "every single visitor has stopped to comment (and when my back has turned to pull off leaves to eat)." Always a standout in our trials, its intense burgundy color the richest we have ever seen. The Dutch company who bred it named it Galactic, but Cook's Garden trumped them by calling it Merlot. This merlot adds as much to your baby salad mix as a good wine adds to your dinner, providing incredible color, excitement and full-bodied flavor. Slow to grow, slow to bolt, plants never achieve much size or density, but are ideal for the baby leaf trade. Not for mature-head production, so may be spaced more closely than other varieties. According to Mountain Dell Farms (growing at 1,400' in the Catskills), can stand outside temperatures to 14 ° when double-covered under Agribon 19. Resistant to X, DM, SC and TB. OT-certified. ①
A=1g, $1.70 **B**=2g, $3.00 **C**=4g, $4.80 **D**=14g, $15.00
E=28g, $28.00 **K**=112g, $100.00

2791TO Tango OG (45 days) For many commercial growers, Tango is the looseleaf of choice for overwintering and for productivity in cool weather. Fall sown with only row cover as protection, it survived the winter for Dani Baker of Cross Island Farms in NY and was pickable in early May. A frilly standard in salad mixes and mesclun adding loft and interesting texture. Could be called the endive of lettuces for its deeply cut pointed leaves. The pleasant flavor, however, has none of endive's bitterness. Bolts readily in hot summer, so plant accordingly if you want it to grow to full maturity. ❄ CCOF-certified. ③
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $7.50
E=28g, $11.00 **K**=112g, $38.00

2792RV Revolution (48 days) As rich a red lollo rosso as anyone could ask for. Enjoy its intensely colored 10–12" deeply frilled thick crunchy leaves. This Revolution can hold a very long time without developing much bitterness before the hot summer sun brings about its reaction. Before then you should guillotine it with your garden shears or cutting knife. ①
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $7.50
E=28g, $12.00 **K**=112g, $38.00

2793LO Dark Lollo Rossa OG (53 days) A much darker version of #**2796** holding its color even under row covers, in tunnels or during prolonged cloudy periods. Our trialer describes it as "fat, curly and very red." Adds color, texture and loft to baby leaf mixes. Begin snipping after only four weeks. Develops bitterness if allowed to size up in heat. CCOF-certified. ②
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $5.00
E=28g, $9.00 **K**=112g, $30.00

2795VO Lollo di Vino OG (56 days) Called by its originator Morton a "distinctive little frizzlehead," di Vino stands out for its extreme dark purple color that originated in its Merlot parentage. Has the beautiful ruffles and classy curls of vintage lollo, but a mildness uncharacteristic of deeply pigmented lollos. Its distinctive lack of bitterness allows the harvest to extend longer into summer than any other lollos we have tried. That and its extreme beauty assure it a place in my patch. Compact. OT-certified. ①
A=1g, $1.80 **B**=2g, $3.50 **C**=4g, $6.00 **D**=14g, $16.00
E=28g, $30.00 **K**=112g, $95.00

2796LR Lollo Rossa (58 days) For loft and texture, used in salad mixes as an accent or garnish, this ornamental delight has been quite the rage in gourmet restaurants. Frizzy foliage is light red on top, light green at base, melding into an eye-catching display. Very cold hardy. This strain is not as colorful as others we've grown in the trials, but it is milder, less bitter, and slower to bolt. Introduced in 1987 by Royal Sluis. ③
A=1g, $1.00 **B**=2g, $1.80 **C**=4g, $3.00 **D**=14g, $7.00
E=28g, $11.00 **K**=112g, $32.00

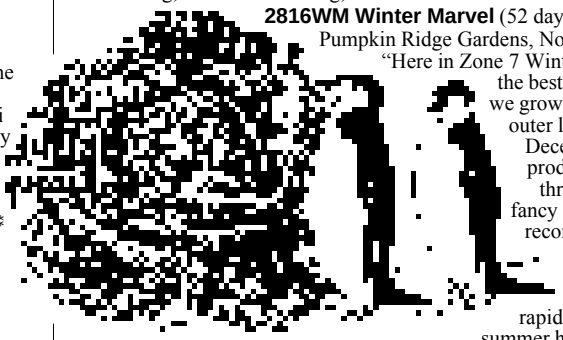
BIBB and BUTTERHEAD

2803TT Tom Thumb (46 days) Miniature butterhead makes an early small tightly bunched head. Outer leaves light-medium green, centers creamy white with a pleasant buttery taste. Very attractive for early markets. Can be spaced quite closely as the heads seldom exceed 5" in diameter. Introduced in England by H. Wheeler & Sons in 1858, it came to the States ten years later courtesy of Gregory. One customer writing to Burpee's in 1894 said, "It is just what the gardener wants…a good dwarf variety, a quick grower." ③
A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.20
D=28g, $3.40 **E**=112g, $6.00 **K**=448g, $15.00

2805BM Bronze Mignonette (46 days) This small ruffled bronze-tinged butterhead captivated me in the trials. Because Mignonette is only slightly larger than Tom Thumb, it is ideal for baby vegetable enthusiasts. Peter Henderson named and marketed it to several seed houses around 1898. ②
A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.20 **D**=28g, $3.40
E=112g, $6.00 **K**=448g, $15.00

2811BU Buttercrunch (50 days) Our lot grow-out manager calls it "the cucumber of lettuce, smooth and soothing with a green refreshing flavor." A 1963 All-America selection developed by Dr. G.L. Raleigh at Cornell. Dark green outer leaves with creamy center heart. Bloodnick praises its "sweet, succulent broad mid-ribs." Slow to bolt, but can be prone to bottom rot. Our best-selling lettuce for fifteen consecutive years from 1982-96, overtaken for a few years by Red Sails, but now back on top. ②
A=2g, 70¢ **B**=4g, $1.10 **C**=14g, $2.00 **D**=28g, $3.20
E=112g, $5.50 **K**=448g, $14.00

2814NO North Pole OG (51 days) We now have a full crop of this extremely cold hardy butterhead that showed promise of being a sales champ before we ran out early last season. Protected only by snow cover, all of Donna Dyrek's plants survived a mild Maine winter outdoors. Can be set out under cover 2–3 weeks before first frost to aim for 4–6" plants at the onset of winter weather. Will resume vigorous growth as days grow longer, tolerating spring frosts. Elegant lime-green 6–8" buttery heads, sweet and good-tasting, won my praise on Jun. 21 in my 1999 trial but by July 3 had turned bitter and bolted. Not for summer, but suited for the other seasons. ❄ OT-certified. ②
A=1g, $1.60 **B**=2g, $3.00 **C**=4g, $5.50 **D**=14g, $9.00
E=28g, $16.00 **K**=112g, $50.00



2816WM Winter Marvel (52 days) Polly Gottesman of Pumpkin Ridge Gardens, North Plains, OR, wrote, "Here in Zone 7 Winter Marvel is bar-none the best overwintering lettuce we grow…We start harvesting outer leaves for salad mix in December…they continue producing without bolting through March." A large fancy light green butterhead recommended for fall production and overwintering where the climate permits. Grows rapidly, but bolts readily in summer heat. If you are sowing in spring for an early summer butterhead, be aware that the harvesting window is very narrow. An old European variety. Seed in short supply; *order early.* **BACK!** ❄ ③
A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.20 **D**=28g, $3.50

2828PO Pirat OG (55 days) From Germany, also known as Sprenkel and Brauner Trotzkopf. Elegant green butterhead with light brown pebbling. Heads like loose large softballs at maturity. Has a delicious smooth taste with creamy texture, and holds well except in prolonged wet spells. Descended from Merveille des Quatre Saisons but much more bolt resistant. OT-certified. ①
A=1g, $1.30 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $60.00

Pest: Aster Leafhopper (vector for Aster Yellows disease)
Cultural controls: control perennial broadleaf weeds near lettuce plantings, plow lettuce fields immediately after harvest.

Pest: Slug
Cultural controls: avoid mulch or nearby grassy areas.
Material: Sluggo (#**8911**)

Disease: Bottom Rot
Cultural controls: rotate with grass family green manures, plant in well-drained soil or on raised beds, more upright varieties escape infection.

Diseases: Downy Mildew, Grey Mold, White Mold
Cultural controls: rotation, reduce duration of leaf wetness, plant parallel to prevailing winds, use wide spacing, control weeds, use well-drained fields in spring and fall.
Material: Actinovate (#**8855**)

2831SO Speckled Amish OG (55 days) "Why put flowers on the table when there's a Speckled Amish bibb to grace the expanse? We float one in a bowl and wait for the applause," lauds Scout Proft. Here is an ornamental bibb of spectacular beauty, its apple-green leaves splashed with maroon flecks, a stunner whether in your garden, on your table or in your salad. Small firm mild-flavored heads shaped like Merveille des Quatre Saisons, centers with soft leaves blanching creamy yellow. Mennonites brought seed in a covered wagon from Lancaster County, PA, to Ontario in 1799. Introduced into commerce in 1880 as Golden Spotted. Morton, who got the stock seed from the Seed Savers Exchange, has been selecting to alleviate tipburn. OT-certified. ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2834VO Sweet Valentine OG (56 days) A real sweetheart of a lettuce, Valentine combines magnificent beauty with a mild sweet taste. Beginning as a large spreading bronzed butterhead with rounded veined leaves, Valentine matures into a romaine shape. Has been very slow to bolt even in hot dry conditions. Flavor is more delicate, soothing and less bitter before it assumes romaine configuration. One of my favorites. CCOF-certified. ⑤
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $16.00 **K**=112g, $50.00

2836YO Red-Eared Butterheart OG (56 days) Not a true butterhead, instead looks like a cross between #**2744** Really Red Deer Tongue and a red Boston. Gets its red "ears" neither from embarrassment nor from excessive cold, instead from Frank Morton's inspired breeding. The ears—dark pointy leaves—are shorter, broader and more buttery and folded than RRDT and the plant is less upright. Pronounced veins are green, shading toward red in the center, and contrast with its dark red leaves to give it its striking good looks. Completely free of bottom rot, even in this wet year. Allow generous space to accommodate its vigorous growth. Still showed a small amount of variation in my trial. We won't put any earmuffs on this one, not even on the chilliest nights. **NEW!** OT-certified. ①
A=1g, $1.80 **B**=2g, $3.50 **C**=4g, $6.00 **D**=14g, $16.00
E=28g, $30.00 **K**=112g, $95.00

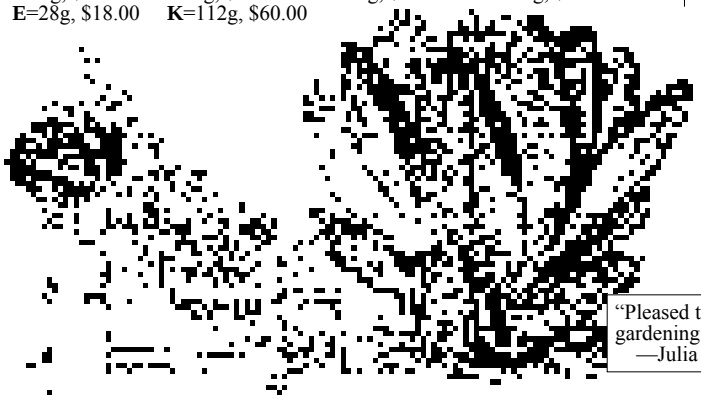
2839KS Kagraner Sommer (58 days) Elegant pale green heads of exceptional quality. Its real claim to fame is its reluctance to bolt even in midsummer heat. ③
A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $5.00 **D**=28g, $8.00
E=112g, $20.00 **K**=448g, $60.00

2841NO Nancy OG (58 days) The best one-word description of this elegant butterhead rhymes with its name. Thick medium-green leaves make extra-large very tight tasty heads that hold well in the field. A standout both for commercial growers and home gardeners. OT-certified. ②
A=1g, $1.80 **B**=2g, $3.40 **C**=4g, $5.50 **D**=14g, $9.00
E=28g, $16.00 **K**=112g, $48.00

2846KP Kinemontpas (60 days) This pale green butterhead grows enormous and is very slow to bolt even in heat. Darker green and larger than Kagraner Sommer, with a dense buttery texture and pleasing mellow taste. Lettuce collector M. Schultz brought this classic French heirloom to our attention. **BACK!** ②
A=1g, $1.00 **B**=2g, $1.80 **C**=4g, $3.20 **D**=14g, $7.00
E=28g, $11.00 **K**=112g, $35.00

2849WD Winter Density Bibb/Romaine (60 days) Also known as Craquerelle du Midi, a French heirloom from the 19th century. Is it a bibb or a romaine? Any way you look at it, its thick tender dark green leaves make superb eating. Starts out looking like a bibb then wrapper leaves fold tightly, form a head like a romaine when mature. Combines the substance of romaine with the tender succulence of bibb. ❄ ②
A=2g, 90¢ **B**=4g, $1.50 **C**=14g, $2.50 **D**=28g, $4.50
E=112g, $10.00 **K**=448g, $30.00

2851WV Wunder von Stuttgart (60 days) A wonder indeed, elegant and enormous in Loon Song Farm's trial where it reached 1' in diameter in the heat of summer while retaining all the qualities we love in a classy butterhead. Equally impressive, if only slightly more subdued, in Shooting Star Farm's fall plot, where the shiny dark green ruffled rounded leaves were sweet, buttery and chewy. Donna Dyrek called it "larger and better than Nancy." Janice Welsby says much less prone to rot than Buttercrunch. Light medium-green. ②
A=1g, $1.30 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $60.00



ROMAINE and COS

According to Twin Oaks grower Pam Dawling, Romaine lettuces have double the Vitamin A and C content of the other kinds.

2854BO Blushed Butter Cos OG (49 days) A combination butterhead/romaine with ruffled savoyed leaves dappled in an attractive palette of reds and greens. Butter Cos was judged to be #1 for taste out of more than 100 lettuces in our 1996 trial. Remarkably crisp for such a buttery taste. ☙1997. OT-certified. ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $60.00

2856JO Mayan Jaguar OG (51 days) Well you might ask, what manner of cat is this? Not having ever seen a jaguar up close, I can only imagine how the mottled maroon spots on the dark green ruffled leaves of this lettuce might have suggested the markings on a jaguar's coat to Frank Morton. Although I've seen a lot of these trendy splotched lettuces in the last decade, this cat wins the blue ribbon for most vibrant color definition. And it has great flavor, too, sweet juicy veins, blushed pink hearts and what the breeder refers to as "that bone crusher romaine crunch!" Because it gets off to such a quick start, yet doesn't grow very large or thrive in the most intense July heat, it is a great candidate for early salad or mesclun. Fierce colors, snarly crunch, but really a pussycat at heart. **NEW!** OT-certified. ①

A=1g, $2.40 **B**=2g, $4.50 **C**=4g, $8.00 **D**=14g, $25.00
E=28g, $45.00

2858FO Forellenschluss OG (56 days) Called by Bloodnick "the Jackson Pollack of lettuces." Also known as Freckles or Trout Back, an heirloom from Arche Noah, the Austrian genetic preservation project. An absolutely gorgeous romaine with the delicate taste and texture of a butterhead, distinguished for its deep green leaves flecked with wine-red splotches. Lately we've seen increasing variation in the coloration and degree of splotching. The best-tasting of the 50 lettuces in our 1998 trial. Very buttery tender leaves may be harvested at 4–6" for mesclun or allowed to grow full size for maximum ornamental benefit. William Woys Weaver traced Forellenschluss back to 1793; it was a dwarf variety of Spotted Aleppo developed in Germany. More upright and cup-shaped than # **2831** Speckled Amish, with larger and darker splotches and better heat tolerance. One of our five most popular lettuces. CCOF-certified. ③
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $7.00
E=28g, $11.00 **K**=112g, $25.00

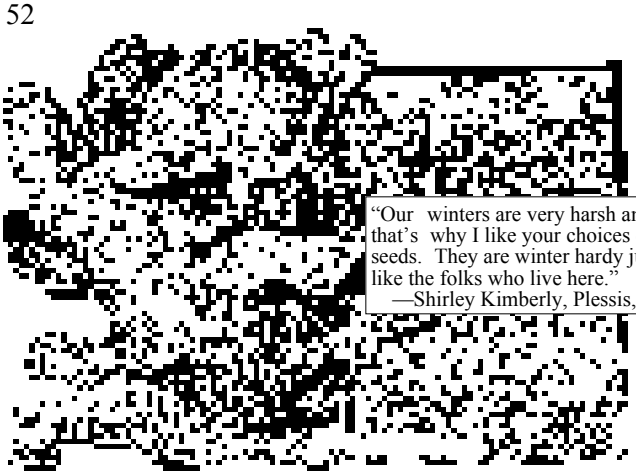
2859MR Majestic Red (60 days) Fancy savoyed rich bronze-red leaves make Majestic positively gorgeous. Cylindrical "head" has somewhat spreading habit. One of the slowest-bolting romaines in our trial and much in demand in recent years. Developed by Sunseeds. ②
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $7.00
E=28g, $11.00 **K**=112g, $25.00

2861JO Jericho OG (60 days) Has become the classic summer romaine lettuce for warm regions. We decided to do our own production to keep Jericho in our catalog after Genesis' high-priced replacement proved not noticeably better in our trials. If the walls are tumbling down on your summer lettuce, try Jericho, bred in Israel's hot dry climate to stand high temperatures. An imposing romaine, under fertile conditions it can grow dense hefty 2' tall heads of light green sword-shaped upright leaves. Yet it remains crisp, juicy and unusually sweet. Ours didn't tipburn even in late July and resisted bolting until July 24. OT-certified. ①
A=1g, $1.30 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $50.00

2865RH Rouge d'Hiver (65 days) The true Rouge d'Hiver, black-seeded, with much deeper red outer-leaf coloration than Brune d'Hiver with which it is sometimes confused. Inner leaves are green with deeply bronzed tip, an attractive color combination that commands attention. Forms a semi-open romaine head with excellent flavor, especially in cold weather. Develops pronounced bitterness in summer heat. *Hiver* means 'winter' and Rouge is more suitable for fall production or overwintering than for summer. French 1840s heirloom listed by Vilmorin in 1885. ❄ ②
A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.20 **D**=28g, $3.50
E=112g, $6.50 **K**=448g, $21.00

2866PL Plato II (65 days) A lettuce fit for a philosopher-king, Plato sets a high standard for sweet taste in a romaine, holding its quality well into summer without bitterness, bolting or any tendency to tipburn. Morton also found it more resistant to DM and SC than any of his other green romaines. Attractive dark green slightly ruffled heavily veined leaves. The favorite lettuce of Ohio market grower Harv Roehling (profiled in our 2011 catalog.) "Great flavor, handles heat better than most, great looking," he says. ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $8.00
E=28g, $12.00 **K**=112g, $40.00

"Pleased to support Fedco—after all how many people have a local, politically savvy gardening company filled with expert information from actual farmers?"
—Julia Hanauer-Milne, Sidney, ME



"Our winters are very harsh and that's why I like your choices of seeds. They are winter hardy just like the folks who live here."
—Shirley Kimberly, Plessis, NY

2874LO Olga OG (66 days) Elegant lime-green Olga won our hearts in our 2006 lettuce trials. Big upright 8" oval heads with big hearts, big flavor, and slightly fringed leaves. So sweet, crisp and buttery that Morton thinks she must have some butterhead in her background. Stood considerable heat before developing slight tipburn and bitterness in August. OT-certified. ①
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $4.80 **D**=14g, $10.50
E=28g, $20.00 **K**=112g, $70.00

2877MO Marshall OG (67 days) As Merlot to looseleafs so Marshall is to romaines, the new standard for color intensity. One look is all it took to Marshall my support. Really deep dark red leaves with contrasting pink veins, radiating to a smidgen of green in the center. Tall upright 8" heads. Leaves smooth and succulent, crisp and chewy, lacking the bitterness usually associated with such coloration. OT-certified. ②
A=1g, $1.50 **B**=2g, $2.80 **C**=4g, $5.00 **D**=14g, $12.00
E=28g, $20.00 **K**=112g, $48.00

2879PI Parris Island Cos (68 days) The standard market romaine developed by Clemson University and the USDA in 1952. Upright 8–9" heads fold inward to form compact centers. Interior greenish-white. Resistant to tipburn and bolting, even in heat. Irrigation improves its texture. One grower praised its rapid emergence in his pre-sprouting setup. Cos is an island in the Dodecanese region of Greece where this type of lettuce was named. Parris Island is in South Carolina. ②
A=2g, 70¢ **B**=4g, $1.10 **C**=14g, $2.00 **D**=28g, $3.20
E=112g, $5.50 **K**=448g, $14.00

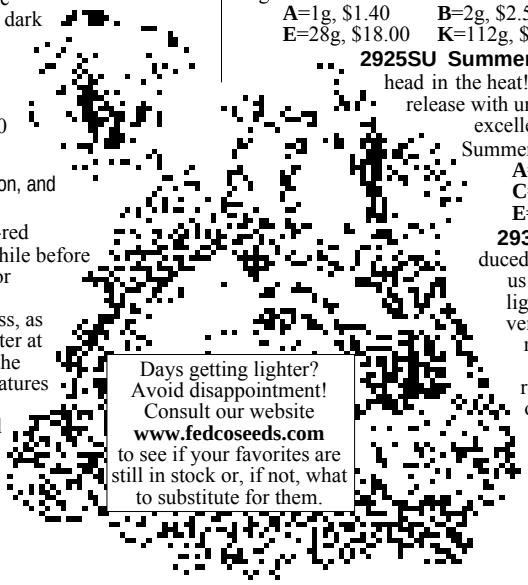
2883CO Crisp Mint OG (70 days) Also known as Erthel. Named for its ruffled mint-leaf appearance, not for any minty flavor. Good size, exceptional crispness and sweet flavor with little bitterness even in mid-July. This long-standing dark green romaine with an open habit and a rounded top was a standout two consecutive years. Notes from my original trial in 1999: "Lovely and delicious, crisp and sweet. Nice size, ruffled leaves, GET THIS!!" Breen has found it "biteable, chewy, with a great texture… surprisingly good!" Slow to bolt, though some tendency to tipburn in July heat. Biodynamically grown but not BD certified. OT, Stellar NOP-certified ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $17.00 **K**=112g, $55.00

2886WO Winter Wonderland OG (70 days) Did you say winter? Despite the progression of global warming Maine is still a winter wonderland as any who made it through 2008 and 2009 can attest. It still gets cold enough that we really appreciate a lettuce that makes it through the rigors. Winter Wonderland was one of three lettuces to survive Roberta's over-wintering test. A tall erect romaine with dark green leaves, Wonderland is slow to bolt in heat but we recommend it for farming the dark side of the calendar. White seed. ❄ OT-certified. ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60
D=14g, $9.00 **E**=28g, $17.00 **K**=112g, $55.00

BATAVIAN

Batavian lettuces generally have good hot weather germination, and excellent heat and cold tolerance.

2905DO Cardinale OG (48 days) This alluring wine-red European batavian disappeared from commerce for a while before Frank Morton rescued it. And a worthy rescue it was, for Cardinale is a classic both for baby leaf and full head production. Looks a little like a butterhead-romaine cross, as the open rosettes fold together like a romaine in the center at full maturity. Shiny red leaves on the outside, green in the center, crisp and juicy with some heft. Survived temperatures in the teens in Janine Welsby's unheated greenhouse under a double layer of Agribon 19 topped with old bed sheets. OT-certified. ①
A=1g, $1.60 **B**=2g, $2.80 **C**=4g, $4.80
D=14g, $11.00 **E**=28g, $20.00 **K**=112g, $75.00



Days getting lighter? Avoid disappointment! Consult our website **www.fedcoseeds.com** to see if your favorites are still in stock or, if not, what to substitute for them.

2907SO Sierra OG (50 days) A red-tinged French batavian renowned for its extraordinary seedling vigor, resistance to tipburn and reluctance to bolt even in midsummer heat. Has compact upright form. Revered among market growers, it especially stands out in late July when others have rotted or bolted. We have harvested spring-planted marketable specimens as late as Aug. 6. Crispy and tasty. Developed by Vilmorin in 1992. Resists DM, tolerates LMV. Biodynamically grown but not BD certified. Stellar NOP-certified. ①
A=1g, $1.40 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

2908TO Concept OG (51 days) The Concept here is a combination of a batavian with a romaine. As the plant reaches full maturity, the whorling thick succulent juicy medium-green leaves start to close up at the top. Can be used for baby lettuce or allowed to mature into a vase-like bunch. As with most batavian types, it is relatively tolerant of hot weather and rarely bitter. Biodynamically grown but not BD-certified. Stellar NOP-certified. ①
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

Michelle (51 days) We are dropping this variety in favor of # **2907** Sierra which can also stand the heat and is preferred by commercial growers. *No longer available.*

2919PO Pablo OG (68 days) Pablo bears a superficial resemblance to a red iceberg with much the same attraction, but is a batavian, not a crisphead. Its larger plants form loose heads of beautiful upright rosettes surrounded by wide wavy-edged flat leaves. Bronze coloration on the outside leaves contrasts strongly with the green interiors lending a striking metallic sheen. Very sweet and mild with some bitterness in the ribs, slow-growing and extremely heat resistant. Always one of the last five to bolt in my extensive lettuce trials—sweet to the bitter end. Lovely enough to stand as an ornamental, but also one of the best-tasting in the patch. From Seed Savers Exchange. Biodynamically grown but not BD certified. Stellar NOP-certified. ②
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

2921NO Anuenue OG (72 days) Johnny's deserves credit for popularizing Anuenue. Its mellifluous Hawaiian name (pronounced AH-new-ee-new-ee) means 'rainbow' even though it is a uniform dark green. How could I have overlooked Anuenue for so long? Well, it sure doesn't look like much in June when most other lettuce is in full glory, but as the days get shorter and the heat gets stronger it really comes into its own. In late July and even early August, this 1987 University of Hawaii product has no peers for crispness and sweetness, and I wouldn't be without it for first-rate midsummer salads. Slow growth is its secret. It remains compact as it matures, surrounding its round tightly-packed heart with crisp outer leaves. There is never the faintest hint of bitterness. Unlike most lettuces, seed will germinate at 80 °. Also has some winter hardiness, surviving teen temperatures under Agribon 19 and old bed sheets in Welsby's unheated greenhouse. CCOF-certified. ①
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

CRISPHEAD or ICEBERG

According to Vaugan's 1904 catalog, Iceberg gets its name from the small indentations in the leaves which are constantly filled with dewdrops giving them a crystalline appearance.

2922RO Red Iceberg OG (63 days) Has burgundy exterior coloration, compact medium-sized heads, great reliability and pleasing sweet flavor. An attractive alternative to green iceberg. Interior shades to green. Heads resist getting soft and mushy in the heat for a relatively long time. Biodynamically grown but not BD-certified. Stellar NOP, OT-certified. ①
A=1g, $1.40 **B**=2g, $2.50 **C**=4g, $4.00 **D**=14g, $10.00
E=28g, $18.00 **K**=112g, $55.00

2925SU Summertime (70 days) An iceberg that keeps its head in the heat! Summertime is an Oregon State University release with uniform compact dense medium-sized heads of excellent flavor. Harvest iceberg well into July with Summertime. Resistant to TB. ②
A=1g, $1.10 **B**=2g, $1.80
C=4g, $3.20 **D**=14g, $7.00
E=28g, $11.00 **K**=112g, $36.00

2931WW Webb's Wonderful (72 days) Introduced 1890 by Clarence Webb in England, came to us via Schultz. Webb's remarkable large-veined lightly savoyed dark-green leaves slowly form a very large crisphead with an exceptional buttery mild flavor like a butterhead. Though our trial notes indicate it stands heat well, bolts reluctantly, and doesn't get bitter, Debby Jaffe of Long Days Farm in Buskirk, NY, preferred it as a fall lettuce. Delicious for grazing. I start harvesting leaves long before heads form. ②
A=2g, 70¢ **B**=4g, $1.10
C=14g, $2.00 **D**=28g, $3.20
E=112g, $5.50 **K**=448g, $18.00

MIXES

Exact components will vary according to availability, but are posted each year on our website **www.fedcoseeds.com**.

Lettuce Mixes Light up your salad patch with contrasting colors and leaf forms! At least a half-dozen different lettuces, all suitable for cut-and-come-again culture.

2980LM Lettuce Mix
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $6.50
E=28g, $11.00 **K**=112g, $35.00

2981LO Lettuce Mix OG A high-quality mix consisting entirely of certified-organic seed. For certified growers and folks wishing to avoid ④ and ⑤ suppliers.
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $15.00 **K**=112g, $55.00

2983DO DeLuxe Lettuce Mix OG Contains those fancy, pricey and rare varieties; the Mercedes Benz of lettuce mixes. Now all-organic!
A=1g, $1.60 **B**=2g, $3.00 **C**=4g, $5.00 **D**=14g, $12.00
E=28g, $20.00 **K**=112g, $75.00

2984FO Freedom Lettuce Mix OG An inspiring mix with plenty of surprises, this gene pool was created by Morton in what he called the "Hell's Half-Acre lettuce trial" identifying those varieties most disease resistant and crossing them with his best-tasting varieties to select and recombine for excellent traits. Contains exceptional material including some experimental forms that would stand on their own as named varieties. Morton invites growers and breeders to work with this mix to create new varieties for their farms or for the general public, while stipulating that nothing derived from it may be patented or protected from others' use in any way. This strategy, originated by software developers, is now known as copyleft (as opposed to traditional copyright). Morton has adopted it to keep his varieties and their derivatives in the public domain as a protected commons. Seeds as nature's software! See wwwgnu.org/philosophy/philosophy.html. for more information on copyleft. These days freedom is a rather slippery concept and many things are being done in its name that I don't approve, but copyleft has the potential to return to free use such shared resources as our plant heritage that rightfully belong to all of us. As Morton proclaims, "Adaptive breeding cannot occur under a system of restrictive ownership.'**NEW!** OT-certified. ①
A=1g, $2.20 **B**=2g, $4.00 **C**=4g, $7.00 **D**=14g, $22.00
E=28g, $40.00

2985RO Red Carpet Lettuce Mix OG Anyone who has tried Roberta Bailey's mixes knows that they are among the best in the business. She will choose from all the superior organically grown bronze and red varieties that we have in stock. Sure to please, sure to dazzle. **NEW!**
A=1g, $1.50 **B**=2g, $2.60 **C**=4g, $4.50 **D**=14g, $11.00
E=28g, $18.00 **K**=112g, $65.00

2986SM Summer Lettuce Mix A special selection of red, green and bronze lettuce varieties that will stand into late July without bolting.
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $16.00 **K**=112g, $55.00

2988WM Winter Lettuce Mix For those who crave fresh salads most of the year, a popular selection of varieties with the potential to survive the winter with protection, and resume vigorous growth in the spring. ❄ ②
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $16.00 **K**=112g, $55.00

2992ME Mesclun Once an exotic term from Provence meaning 'mixture,' now 'Mesclun' is a word in every American market growers' vocabulary. According to Rosalind Creasy, the original mesclun was intended to use all parts of the tongue, with a range of textures from crispy to velvety and of tastes from tangy to bitter. Quite the opposite of the typical American salad that Creasy denigrated as "the white bread of greens" for its lack of diversity and its over-reliance on pale iceberg lettuce. Our mixture consists of two packets: #**2980** Lettuce Mix and # **2996** Mustard Mix. Harvest these greens by cutting the leaves with scissors, leaving 1–2" of foliage as well as the apical bud and several small leaves surrounding it, so that they can grow back. We recommend that you plant each packet in adjoining beds or rows so that the lettuces won't overwhelm the greens. You can enhance your mesclun by adding other greens such as mâche, claytonia, and bronze fennel. Add edible flowers of garlic chives, nasturtiums, violas, signet marigolds, borage, and mustard blossoms to lend further appeal to the mix, creating delectable color, taste and texture contrasts.
A=1g, $1.10 **B**=2g, $2.00 **C**=4g, $3.30 **D**=14g, $9.00
E=28g, $14.00 **K**=112g, $45.00

2993GO Greens Mix OG Versatile companion to # **2981**. At least five varieties, certified organic seed, chosen from among beets, chard, arugula, mustards, orachs, purslane, chervil and kales suitable for mesclun or braising. Exact components will vary according to availability. For a fully organic salad, from seed to table.
A=1g, $1.20 **B**=2g, $2.20 **C**=4g, $3.60 **D**=14g, $9.00
E=28g, $16.00 **K**=112g, $55.00

2996MM Mustard Mix The same mix found in our Mesclun (# **2992**). Includes mizuna, chervil, endives, sorrel, Red Giant mustard, arugula, and tatsoi. We may substitute one or two other varieties if necessary.
A=1g, $1.00 **B**=2g, $1.80 **C**=4g, $3.00 **D**=14g, $6.50
E=28g, $11.00 **K**=112g, $35.00

"Every person who visited over the holiday season wouldn't believe I still had crops growing. Once they saw for themselves, they just stood there astounded. Thanks so much for the cold-hardy genetics."
—Micky Strachota, Colrain, MA

GREENS Including Season-extenders

All greens are open-pollinated except where noted.

When to harvest greens? Research from trials conducted in England and Kenya showed looseleaf lettuce, red chard and arugula harvested in the evening had a longer shelf life than when picked in the morning.

Look for the snowflake symbol ❄ after each cultivar description for indication that a variety is hardy through at least a part of our Maine winter.

AMARANTH *Amaranthus* spp.

Although Amaranth was one of the Aztecs' five principal food crops for its high protein content and amazing nutritional qualities, it has fallen into disuse for those purposes. Until now we have selected this crop mostly for its ornamental potential. We are now trialing Amaranth varieties for ability to ripen seed in our climate and for use as a grain crop, and any such future selections will either be listed here under greens or in our grains section. We've moved Hopi Red Dye, formerly offered here, to annuals under #**5014,** joining #**5011** and #**5013.**

ARUGULA *Eruca sativa*

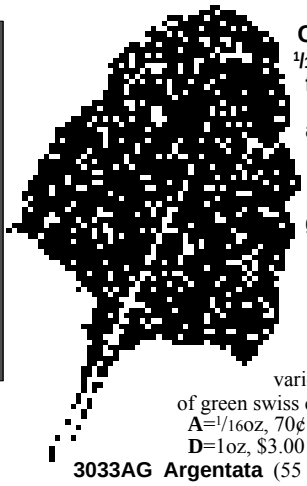
1/16 oz packet sows 60 ft, 1 oz 960 ft. Also known as Roquette or Rocket. It has come a long way, baby! since 1980 when I added it to our selection because my father liked it. Little known then, it is now so popular that we order it in 50-pound bags. Commercial growers bought 203 one-pound packets last year plus 42 5-pounders. Few people are indifferent to arugula: most of us love it, a few despise it. Musky green and its piquant blossoms will spice up your salad. Bolts readily in heat, much better as a fall crop or succession planted. Use row covers to discourage flea beetles. A prime ingredient in tangy mesclun mixes. Frequent watering will reduce its pungency.

3021BO Ice-Bred Arugula OG (44 days) Brett Grohsgal crossed two excellent European heirloom strains in 1989 and has been selecting for cold-hardiness and vigor since. He's bred one tough cookie here. Mid-ribs and whole leaves develop a lovely purple hue in winter freezes. Recovers in spring even if plant goes dormant under very cold conditions. Seedlings can stand drought, compete against weeds and don't require high soil fertility. They were also 1–2 days slower to bolt than other arugulas in my spring-sown 2010 plot. This is arugula with more bite, vigorous with complex full flavors. ❄ MD-certified. ①
A=1g, $2.00 **B**=2g, $3.80 **C**=4g, $7.00 **D**=1oz, $36.00
E=4oz, $140.00

3022AR Arugula (47 days) The best-tasting and most bolt-resistant of the 11 strains we trialed in 2006 (# **3021** Ice-Bred above was not among them). Stood outside temperatures down to 14° double-covered under Agribon 19. ②
A=1/16oz, 70¢ **B**=1/8oz, $1.20 **C**=1/2oz, $2.00 **D**=1oz, $3.00
E=4oz, $5.00 **K**=1lb, $15.00 **L**=5lb, $70.00

3023AO Arugula OG (47 days) OCIA-certified. ②
A=1/16oz, $1.00 **B**=1/8oz, $2.00 **C**=1/2oz, $3.00 **D**=1oz, $4.00
E=4oz, $7.00 **K**=1lb, $25.00 **L**=5lb, $120.00

3027SY Sylvetta Arugula (50 days) *Diplotaxis erucoides* Also known as Rucola Selvatica, a must for extraordinary cold-season salads. A wild form of arugula with very deeply lobed leaves. Slower growing, smaller and more pungent than regular arugula. Although we sometimes have germination difficulty when we direct-seed Sylvetta, we have had great luck with it as a greenhouse potted plant. Only about half the height of regular arugula, it does not require an enormous pot. Moreover, it is more heat tolerant and more cold hardy than regular arugula. Eliot Coleman lists it as one of his winter staples in *The Winter Harvest Handbook* (#**9876**). ❄ ②
A=1/16oz, $1.50 **B**=1/8oz, $2.60 **C**=1/2oz, $7.00 **D**=1oz, $13.00
E=4oz, $42.00 **K**=1lb, $155.00



CHARD *Beta vulgaris* (cicla group)

1/16 oz packet sows 5-13 ft, 1 oz plants 80-200 ft. Hardy. Salzer's 1915 catalog opines, "Swiss chard produces more food for the table than almost any other vegetable and it also requires less care; it yields a constant crop from July to winter." Even the thick ribs of chard, beets and other greens soften with braising. Plants will grow quite large. Space according to use—can be closer together for baby leaf harvest. Minimum germination temperature 40˚, optimum range 50–85˚

3031FG Fordhook Giant (50 days) Broad white stems, leaves dark green and savoyed with white veins. The standard variety, introduced by Burpee in 1934. Strains of green swiss chard have been around since 1750.②
A=1/16oz, 70¢ **B**=1/8oz, $1.20 **C**=1/2oz, $2.00 **D**=1oz, $3.00 **E**=4oz, $5.00 **K**=1lb, $12.50

3033AG Argentata (55 days) Vigorous long-standing 2–3' plants tolerate a wide variety of weather conditions. "Never gave up!" reports Doreen Mundie of Tryon, NC. Broad silvery-white midribs have a crispy sweet succulence and none of the oxalic aftertaste so common in other chards. The deep green savoyed leaves with a mild clean flavor are a great substitute for spinach in omelettes, pasta dishes and other casseroles. ②
A=1/16oz, $1.10 **B**=1/8oz, $2.00 **C**=1/2oz, $4.00 **D**=1oz, $6.00 **E**=4oz, $20.00 **K**=1lb, $70.00

3034PS Perpetual Spinach or **Leaf Beet** (55 days) Thanks to Pam Dawling who suggested we add this member of the chard family. Leaf beet should be cultured like any other chard variety. It looks similar to other swiss chards, but its stems are thinner, and its exceptionally tender leaves are smoother, not puckered. It tastes unlike any other chard, imparting a spinach-like flavor that lingers pleasantly. Unlike spinach, Perpetual lasts through summer into fall as it withstands light and moderate frosts. Production from June to October, reports one central Vermont grower. Dawling calls it a "must-grow." ②
A=1/16oz, 90¢ **B**=1/8oz, $1.60 **C**=1/2oz, $2.60 **D**=1oz, $4.80 **E**=4oz, $10.00 **K**=1lb, $30.00

3036BL Bright Lights (56 days) In 1998 Johnny's Selected Seeds won its second All-America award for making swiss chard commercially available in a rainbow of colors. Bright Lights bathes stems, midribs and secondary veins in a panoply of gold, yellow, orange, pink, intermediate pastels and dazzling stripes. The AAS judges were impressed by the tenderness of its dark green to bronze leaves and the mildness of its chard flavor. Young seedlings respond to cut-and-come-again culture, ideal for mesclun. Developed by John Eaton of Lower Hutt, New Zealand, who found the parent plants, a red one and a yellow one, in a small home garden in 1977 and crossed them to standard green and white varieties, selecting for color and flavor over the next fifteen years. Johnny's worked the following years to preserve the strength and range of the individual colors. Now by far our most popular chard, 2011 sales surpassing 5,000 packets.③
A=1/16oz, $1.20 **B**=1/8oz, $2.20 **C**=1/2oz, $4.20 **D**=1oz, $6.50 **E**=4oz, $21.00 **K**=1lb, $75.00

3038GO Golden OG (56 days) The gold standard in chard and a first-rate ornamental edible. A rare color in chard, this strain from Frank Morton stood out in our 2007 grow-out. Large light green semi-savoyed leaves contrast with the bright yellow stems and veins. Becomes strikingly luminescent as the plant matures. This heirloom was developed in the 1830s when it was originally known as Chilean beet. OT- certified. ①
A=1/16oz, $1.30 **B**=1/8oz, $2.50 **C**=1/2oz, $4.80 **D**=1oz, $8.50 **E**=4oz, $30.00 **K**=1lb, $110.00

Red Rhubarb (59 days) Last year's seed, both conventional and organic showed too many color variations and quick bolters in our lot grow-out. It is available as **#6418** in our discounted specials section as Ruby Chard Mix at a heavily reduced price. Our new strain being offered here looked great in the grow-out. Deep crimson stalks, dark green leaves. Very hardy. Beautiful for edible landscapes. Heirloom from Europe goes back to 1857.

3040RR Red Rhubarb ②
A=1/16oz, 80¢ **B**=1/8oz, $1.20 **C**=1/2oz, $2.00 **D**=1oz, $3.00 **E**=4oz, $6.00 **K**=1lb, $16.00

3041RO Red Rhubarb OG CCOF-certified. ③⑤
A=1/16oz, $1.00 **B**=1/8oz, $1.80 **C**=1/2oz, $2.80 **D**=1oz, $4.50 **E**=4oz, $12.00 **K**=1lb, $42.00

"Great! This was easy and fast. Although I admit that I sometimes miss the old days of multi-page paper, red pen required ordering."
—Robin King, Fairfield, ME

CHERVIL *Anthriscus cerefolium*

Chervil (60 days) Greek nobles referred to it as *khairephyllon*, or "leaf of joy," and carried sprigs to bless their friends. Superior slow-bolting strain of this annual grows vigorously. Delicate lacy leaves with distinct flavor good in soups, with fish or asparagus. Essential ingredient in mesclun. Direct seed before a rain in early spring or summer in rich well-drained soil with light but constant moisture. Leaves are ready to harvest 6–8 weeks after sowing. In warmer locations performs best as a fall crop.

3044CH Chervil ②
A=1/16oz, 80¢ **B**=1/8oz, $1.30 **C**=1/2oz, $2.00 **D**=1oz, $3.00 **E**=4oz, $6.00 **K**=1lb, $21.00

3045CO Chervil OG OT, BSO-certified. ①
A=1/16oz, $1.00 **B**=1/8oz, $1.80 **C**=1/2oz, $4.50 **D**=1oz, $8.00 **E**=4oz, $20.00 **K**=1lb, $70.00

CHICORY *Chicorium intybus*

3047RI Italiko Rosso (60 days) Savory Italian chicory often mistaken for a red dandelion. Nip off the deeply toothed red-veined leaves for a delectable treat. Ideal for braising, good in spicy mesclun mix, it imparts its mild dandelion flavor. Moderately tangy in cool weather, it can be somewhat bitter in summer's heat. ②
A=0.5g, $1.20 **B**=1g, $2.20 **C**=2g, $3.50 **D**=8g, $6.00 **E**=16g, $8.00 **K**=32g, $12.00

3048PZ Pan di Zucchero (80 days) The name means 'sugar loaf' in Italian. If you associate chicory with bitterness, heirloom Pan di Zucchero will surprise you. Stood out from the four dozen others in chicory expert Lucie Arbuthnot's fields and was delicious in her kitchen. Its 1' tall large tight light-green leaves are shaped like a romaine lettuce crossed with a napa cabbage. High yielding, best as a fall crop. Will store well for three months and survive for four if you wrap it tightly in slightly damp newspaper and keep it just above freezing. Lucie compares it to witloof chicory, but without the extra work. ②
A=0.5g, $1.20 **B**=1g, $2.20 **C**=2g, $4.00 **D**=8g, $6.00 **E**=16g, $10.00 **K**=32g, $16.00

CLAYTONIA *Montia perfoliata*

1/2 g packet sows 3 ft. Direct seed in spring, 24 per ft. Thin to 3" apart. Responds to cut-and-come-again culture and tolerates moderate frosts. For best quality, make at least one succession planting.

3049CL Claytonia (40 days) Also known as Winter Purslane and Miner's Lettuce, it was the '49ers green of choice, rich in calcium and vitamin C. Claytonia's small heart-shaped leaves have a mild but succulent taste that we find attractive. We add it regularly to our mesclun. Barbara Damrosch (see # **9682** in the books section.) says it "re-grows like crazy so you can get cut after cut off the same plant."❄ ②
A=0.5g, $1.50 **B**=1g, $2.60 **C**=2g, $4.80 **D**=8g, $12.00 **E**=16g, $20.00 **K**=32g, $35.00

CRESS *Lepidium sativum*

1/16 oz packet sows 50-70 ft, 1 oz 800–1,000 ft.

3053CC Curly Cress (20 days) Bright green tightly ruffled leaves can be cut as soon as they are a couple of inches tall. Peppery flavor enlivens salads. Offered by C.P. Hirschy for a nickel a packet in 1890. ②
A=1/16oz, 70¢ **B**=1/8oz, $1.20 **C**=1/2oz, $2.00 **D**=1oz, $3.00 **E**=4oz, $5.00 **K**=1lb, $13.00

3056WO Wrinkled Crinkled Crumpled Cress OG (30 days)
Salad green that will impress.
Mix some lettuce, add some dress.
Stir it up, sit down and fress.
Banish cares and summer stress.
With a designer's eye, a discerning palate, and a breeder's deft touch, Frank Morton crossed Persian and curled cresses to create a gene pool, from which he selected Wrinkled Crinkled. Broad leaves are extremely ruffled and wrinkled along the margins and savoyed in the middle. A fluffy spicy addition to your salad mix, imparting a tang, plus an irresistible sweetness that lingers. Can be bunched for market. OT-certified. ①
A=1/16oz, $1.20 **B**=1/8oz, $2.20 **C**=1/2oz, $4.20 **D**=1oz, $8.00 **E**=4oz, $20.00 **K**=1lb, $72.00

3058WC Watercress (60 days) *Nasturtium officinale* Perennial, Zone 4, native to Europe. Start seeds indoors and transplant to cold frame, keeping watered, or direct sow in soggy stream bank. Also good in pots. Likes sunshine. Keep picked; it gets bitter if flowers are allowed to form. Use in salads and soups; rich in vitamins and minerals. According to University of Connecticut researchers, contains a compound that inhibits numerous types of cancers. ②
A=1/16oz, $1.40 **B**=1/8oz, $2.40 **C**=1/2oz, $8.50 **D**=1oz, $16.00 **E**=4oz, $50.00

ENDIVE *Cichorium endivia*

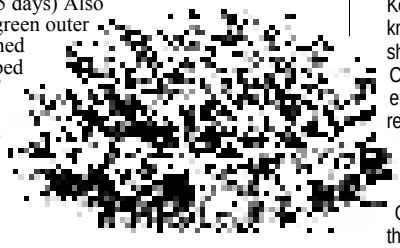
1/16 oz packet sows 40 ft, 1 oz 650 ft.

3063FO Très Fine Maraîchère Olesh OG (42 days) Anne Elder reports that TFM has changed her CSA members' minds about whether they like endive. "Wow, an endive that is sweet. Almost unheard of." Large frizzy endive with very fine ribs suitable for late spring and early summer harvests. Holds well in the field. Known to chefs as frisée. 19th-century French heirloom. AGRIOR-certified. ③

A=1/16oz, $1.80 **B**=1/8oz, $3.40 **C**=1/2oz, $12.00 **D**=1oz, $22.00
E=4oz, $80.00 **K**=1lb, $280.00

Speckled Friz Chickendive OG (70-90 days) *Chicorium intybus* x *C. endivia* No crop; *not available in 2012.* We hope for its return in 2013.

3092BL Broad-Leaved Batavian (85 days) Also known as Escarole. Smooth broad dark green outer leaves with creamy yellow closely bunched center leaves which Fearing Burr described as thick and fleshy in his 1863 *Field and Garden Vegetables*. Lauded by William Woys Weaver as a good salad green, not bitter. "A great lettuce substitute with far more character," praises Marcia Rautenstrauch of Willits, CA. ②



A=1/16oz, 80¢ **B**=1/8oz, $1.20
C=1/2oz, $2.20 **D**=1oz, $3.50
E=4oz, $7.00 **K**=1lb, $20.00

GOOSEFOOT *Chenopodium bonus-henricus*

3096KH Good King Henry Perennial, Zone 3-9, used as a potherb. Also known as Lincolnshire Spinach. Cultured, harvested and prepared much like asparagus and considered a great delicacy. Gather shoots while they are still tender at about 5" high, peel and boil, or harvest the dark green arrow-shaped leaves like spinach. One of the first greens of spring and one of the last of fall. Prefers rich soil in semi-shady areas, though will grow in full sun. Ancient plant used in festive meals, in meat dishes and as a side dish, was very popular in 16th-century England. Seeds should be stratified: fluctuation of high and low temperatures aids germination. Direct sow in spring or fall or transplant very young seedlings in spring. Once established the plants don't bear transplanting. Like asparagus, requires a year of growth before plants can be harvested. If left uncut, stalks grow to 2 1/2'. ②

A=0.5g, $1.30 **B**=1g, $2.20 **C**=2g, $3.60 **D**=8g, $12.00
E=16g, $22.00

SEA KALE *Crambe maritima*

3099SK Sea Kale Perennial, probably Zone 5. Native to the seashores of northern Europe and very popular in England in Victorian times. Once grown on a large scale as a winter substitute for asparagus, cultivated for its blanched tender delicate ivory-colored leaf stalks that can be boiled or steamed to provide a good source of vitamin C. Sea Kale grows up to 3' forming a beautiful rosette of wavy-edged thick silvery-grey leaves and dense racemes of small white sweet-scented flowers in midsummer. The plants die back in the winter, the ideal time to take cuttings of the fleshy side-roots to store in moist sand until March before inserting them into soil. This is a faster way to generate plants than starting each year from seed. Stratify seeds or nick the big seed casings for better, speedier germination. Start indoors like broccoli, set out, protect to overwinter and begin harvesting the 2nd and subsequent years. Blanch the tender slightly bitter early spring shoots in absolute darkness under large pots, and harvest when the stems reach 3–10". Exposed to light in its natural state Sea Kale is bitter and inedible. After blanching, allow the plants to rebuild their strength for the following season. ③

A=1g, $2.00 **B**=2g, $3.80 **C**=4g, $7.20 **D**=8g, $13.00

MÂCHE *Valerianella locusta*

From Susan Lipari of Alpine, NY: "I grew up in Germany, and mâche was a staple winter salad green...Even here, in upstate NY, Zone 5, it is quite untouched by the cold of winter. I harvest mâche all through the winter, sometimes scraping the snow off the rosettes and blowing on my freezing hands. When the weather begins to warm up in the spring, mâche begins to bolt...In late September...the seeds germinate and begin to grow. By the middle or end of October I can start to harvest the new crop...No Thanksgiving...dinner would be complete in my family without 'Rapunzel' salad." Also known as Corn Salad, Lamb's Lettuce, Field Salad and Fetticus, mâche has a unique nutty flavor.

3102VC Verte de Cambrai (45 days) A small-seeded small-leaved strain that performs especially well in cool or cold conditions and is the best kind for overwintering. May be the same variety Thomas Jefferson grew in 1810 under the name Candia. ❄ ②

A=1/16oz, 90¢ **B**=1/8oz, $1.60 **C**=1/2oz, $3.00 **D**=1oz, $5.00
E=4oz, $14.00 **K**=1lb, $40.00

3114LL Large-Leaf Round (60 days) Vigorous large-leaf type is suitable for sowing in spring for an early summer harvest. Weaver traces this strain back to the 1840s, but for centuries prior to that corn salad was gathered in the wild. ②

A=1/16oz, 80¢ **B**=1/8oz, $1.40 **C**=1/2oz, $2.00 **D**=1oz, $3.00
E=4oz, $8.00 **K**=1lb, $28.00

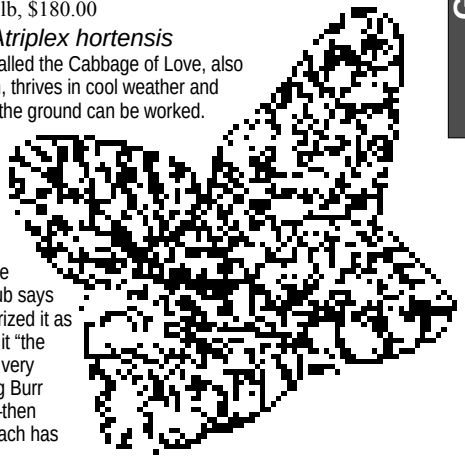
MINUTINA *Plantago coronopus*

3122MN Minutina (50 days) Also called Buckshorn Plantain. "Good in a buttered frying pan with fresh snipped chives and a fresh duck egg cracked on top," informs Jan Sonstrom. Morse Pitts of Windfall Farm brought this spiky green to our attention. As it comes up it looks like little blades of grass. As it matures, it resembles mizuna leaves, only much narrower, less leafy and more succulent. Crunchy with a mild nutty flavor. Slow grower, will regenerate from cutting, but we recommend succession planting. Extremely cold hardy. ❄ ②

A=1/16oz, $1.30 **B**=1/8oz, $2.40 **C**=1/2oz, $7.50 **D**=1oz, $14.00
E=4oz, $50.00 **K**=1lb, $180.00

ORACH *Atriplex hortensis*

Key salad ingredient once called the Cabbage of Love, also known as Mountain Spinach, thrives in cool weather and should be sown as soon as the ground can be worked. Can be pinched back to encourage production and retard bolting. Produces an abundance of seed that can be saved, and will occasionally self-sow.



Orach has been eaten since the dawn of civilization. Staub says ancient Arabic cultures so prized it as a food plant that they called it "the prince of vegetables". Once very popular in America—Fearing Burr listed 16 varieties in 1865!—then forgotten for many years, orach has come back into favor.

3148RO Purple Orach OG (38 days) Beautiful red-purple spinach-shaped leaves have a mild flavor. Seed has bracts. Biodynamically grown but not BD certified. Stellar NOP, CCOF-certified. ①②

A=1/16oz, $1.40 **B**=1/8oz, $2.50 **C**=1/2oz, $9.00 **D**=1oz, $15.00
E=4oz, $50.00

Aurora Orach Mix OG (38 days) Crop failure; *not available in 2012.*

PARSLEY *Petroselinum crispum*

1/16 oz packet sows 25 ft, 1 oz 400 ft. 14,000 seed/oz average. Very hardy. Very slow to germinate (up to 30 days). Soaking seed 8–12 hours will hasten germination. Parsley seed is short-lived; test old seed before sowing.

A shining star of Jason Kafka's wholesale program. He grows Forest Green and Dark Green Italian and says that if you have the market, these may bring more $ per row foot than any other crop.

Minimum germination temperature 40˚, optimal range 50-80˚, optimal temperature 70˚, emergence takes 29 days at 50˚, 17 days at 59˚, 13 days at 77˚.

3158GI Gigante d'Italia (70 days) We were wowed by its early seedling vigor and rich sweet flavor. Flat-leaved heirloom hails from northern Italy and grows to 1'. ❄ ②③

A=1/16oz, 70¢ **B**=1/8oz, $1.20 **C**=1/2oz, $2.20 **D**=1oz, $3.20
E=4oz, $5.00 **K**=1lb, $14.00

3166FG Forest Green (75 days) Double-curled with long upright stiff stems. Holds color well all season, tolerates heat and repeated cuttings. Gene and Joanna plant huge amounts for parsley pesto. ❄ ②

A=1/16oz, 80¢ **B**=1/8oz, $1.30 **C**=1/2oz, $2.40 **D**=1oz, $3.50
E=4oz, $7.00 **K**=1lb, $24.00

3168KR Krausa (75 days) "Best parsley I've had in my life," exclaims Nikos. Stems so sweet they taste almost like a miniature celery: thick, solid, crunchy, yummy. Dense triple-curled medium-green parsley holds its color without developing white or brown spots. Taller, thicker stems than Forest Green. "Never before had a parsley with such delicious stems," raves trialer Donna Dyrek. Can stand the heat and were still beautiful and juicy in October. ❄ ④

A=1/16oz, $1.10 **B**=1/8oz, $2.00 **C**=1/2oz, $3.50 **D**=1oz, $6.00
E=4oz, $18.00 **K**=1lb, $62.00

3170DO Dark Green Italian OG (78 days) Smooth and shiny large wide dark green flat leaves. Upright with vigorous growth. ❄ WA-certified. ⑤

A=1/16oz, $1.10
B=1/8oz, $2.00
C=1/2oz, $3.50
D=1oz, $6.00
E=4oz, $15.00
K=1lb, $56.00

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- place orders
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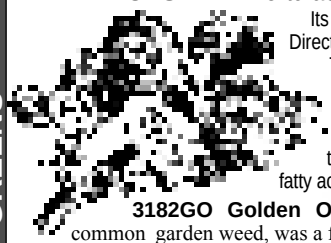
- find products that arrived too late to list here

PURSLANE *Portulaca oleracea* var. *sativa*



Its Latin name means 'milk-bearing vegetable.' Direct seed in spring, after danger of frost is past. Thin to 5" apart. Can be cut; will regenerate. Doesn't tolerate frost. We recommend a succession planting to maximize tenderness. Purslane leaves have more vitamin C than spinach leaves and are rich in omega-3 fatty acids and antioxidants.

3182GO Golden OG (50 days) Its wild relative, the common garden weed, was a favorite edible of both Thoreau and Gandhi. This domesticated strain is more erect than the wilding, and not crawly. Golden has a succulent texture with a mildly acerbic flavor that makes it an ideal addition to mesclun. Golden-green leaves patterned like a cross. OT-certified. ①

A=0.5g, $1.40 **B**=1g, $2.50 **C**=2g, $4.50 **D**=8g, $9.00
E=16g, $16.00 **K**=32g, $30.00

RADICCHIO *Cichorium intybus*

These radicchios are easy to raise from transplants although they have not yet been refined to absolute uniformity. Occasional plants still bolt unpredictably. If you try direct-seeding, watch out for voracious flea beetles. Culture like lettuce; do not allow to dry out. They are mature when heads form in the center. Do not eat the bitter outer leaves. The edible centers are an acquired taste, retaining some bitterness, wonderful in salad or braised. Fall crops make the largest heads. Very tolerant of fall frosts. Ours gallantly stood consecutive nights in the low twenties without apparent damage. Even if you don't like to eat radicchio, consider growing its red heads as ornamentals. Left in the ground over winter, it bolts in spring and blooms with cornflower-blue chicory flowers every morning throughout the summer.

3186PR Palla di Fuoco Rossa (65 days) Round-headed Chioggia-type from Italy. Palla di Fuoco impressed us with its deep burgundy heads that matured early with good uniformity. Its name means balls of red fire. ②

A=0.5g, $1.20 **B**=1g, $2.20 **C**=2g, $4.00 **D**=8g, $7.00
E=16g, $12.00 **K**=32g, $20.00

3187FR Fiero (66 days) F-1 hybrid. A beautiful elongated upright radicchio. Deeply ribbed leaves with a branching pattern off the central vein reminiscent of a tree. The whitish vein blushes green along the margins and branches, creating a spectacular color contrast with the purplish background. Early and delicious, a reliable header. Seed not pelleted this year. ④

A=0.05g, $1.50 **B**=0.1g, $2.80 **C**=0.2g, $5.00
D=0.4g, $9.00 **E**=1.6g, $16.00 **K**=3.2g, $28.00

3188ND Indigo (69 days) F-1 hybrid. We've never seen a radicchio produce such consistently large tight heads of extraordinary rich interior color. Nikos rated it one of the sweetest red radicchios she's ever tasted. TB resistant. Seed not pelleted. ④

A=0.05g, $1.50 **B**=0.1g, $2.80 **C**=0.2g, $5.00 **D**=0.4g, $9.00
E=1.6g, $16.00 **K**=3.2g, $28.00

3189RT Radicchio di Treviso (80 days) Shaped almost like a small romaine lettuce, turns from green to variegated dark burgundy with lovely white veining as the nights grow cold. As its narrow leaves bunch like a romaine, you can bind them with a ribbon to make a firmer "head." Best for fall crops. ②

A=0.5g, $1.20 **B**=1g, $2.00 **C**=2g, $4.00 **D**=8g, $7.00
E=16g, $12.00 **K**=32g, $20.00

SORREL *Rumex acetosa*

Sorrel derives from the French word *surele*, roughly translated 'to sour.' Sorrel juice has been employed to bleach linens and polish silver.

3192BL Broad-Leaved Sorrel (60 days) Perennial often known as Sour Grass likes cool weather, acid soil, partial shade and plenty of water to retard bolting. In spring it rapidly shoots up its thick sword-shaped lemony-flavored leaves. If left untouched will grow up to 18" and make seed stalks. Snip the leaves while they are still young and tender. Keep cutting and never let them grow big and coarse or go to seed. If they get away, mow the plant close to the ground and it will regenerate. Or treat as a biennial by planting a new patch every year and rotating the old out of production. Young leaves add tang to soups and salads and provide a welcome spring tonic. Tony Ricci of Green Heron Farm in PA recommends grilling fish wrapped in sorrel leaves surrounded by foil. The sorrel imparts an herbal-lemon flavor to the fish. Zone 3. ②

A=1/16oz, $1.00 **B**=1/8oz, $1.80
C=1/2oz, $2.80 **D**=1oz, $5.00
E=4oz, $12.00 **K**=1lb, $42.00

ASIAN GREENS *Brassica* spp.

All Asian greens are open-pollinated except where noted.

ASSORTED

3203GS Garland Serrated Chrysanthemum *C. coronarium* (40 days) Grown for its aromatic greens with an unusual taste appreciated by devotees. This strain was superior to other Shungiku varieties in our trial. Its 5" flowers (buttercup yellow, edged in white with serrated tips) were larger and better for the edible flower market and its small grey-green serrated leaves had distinctly more chrysanthemum taste. The Japanese use it in hearty one-pot winter stews known as *oden*. Also good in salads, soups and stir-fries. Plant thickly in early spring (or summer for a fall crop) and harvest green leaves when stems are 4–8 inches tall, before buds appear. ⑤

A=1/16oz, $1.10 **B**=1/8oz, $2.10 **C**=1/2oz, $3.60 **D**=1oz, $5.50
E=4oz, $15.00 **K**=1lb, $55.00

3205HT Hon Tsai Tai (37 days) *Brassica rapa* Chinese specialty vegetable also known as Purple-flowered *Choy Sum*, meaning 'vegetable heart' or 'flowering stem' in Cantonese. The flower stalks, leaf stalks and buds are deep purple, with color intensifying in cold weather. Grows vigorously in fertile soil, producing up to forty pencil-thick flowering shoots, though much skimpier on poor ground. Shoots and leaves have a pleasant mild mustardy flavor good for stir-fries, braising and soups. Grows best in cool weather, ideal when sown in late summer for a fall crop or in fall for an early winter crop in warmer climates. Hardy to 23°. May bolt prematurely in midsummer heat. **BACK!** ③

A=1/16oz, $1.10 **B**=1/8oz, $2.00 **C**=1/2oz, $3.30 **D**=1oz, $5.00
E=4oz, $13.00 **K**=1lb, $40.00

3209MS Maruba Santoh (35 days) *B. r.* (pekinensis group) With Maruba you get four vegetables in one. The loose round vibrant chartreuse leaves provide a mild piquant mustardy flavor while the flat white stems impart a juicy crisp pac choy taste. High-end chefs like to use the blossoms. Market grower Scott Howell finds the flavor more subtle and complex than that of other greens and cuts Maruba small for his mesclun. Fairly bolt tolerant, so plant after the early spring flea beetle invasion subsides. ⑤

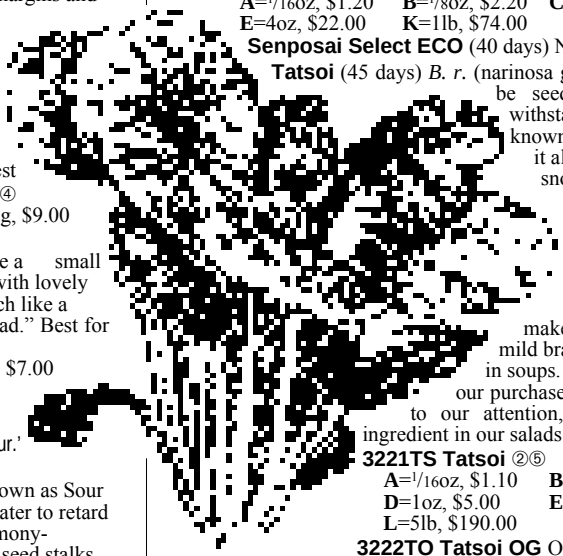
A=1/16oz, $1.10 **B**=1/8oz, $2.00 **C**=1/2oz, $3.20 **D**=1oz, $5.00
E=4oz, $13.00 **K**=1lb, $45.00

3218SP Senposai (40 days) F-1 hybrid. This exciting green, developed in Japan, is a cross between Japanese Mustard Spinach (Komatsuna *B. rapa*) and regular cabbage. Round medium-green leaves are wonderful in *okonamiyaki* or for braising. A spring sowing will stand the entire summer (even through drought) and well into fall before bolting. Can be overwintered in warmer climes or used for spring greenhouse salad production because it grows so rapidly. Open plant habit requires 12–18" spacing. ❄ ⑤

A=1/16oz, $1.20 **B**=1/8oz, $2.20 **C**=1/2oz, $4.00 **D**=1oz, $7.00
E=4oz, $22.00 **K**=1lb, $74.00

Senposai Select ECO (40 days) No crop; *not available in 2012.*

Tatsoi (45 days) *B. r.* (narinosa group) What grows quickly, can be seeded as late as August and withstands frost? Yes, Tatsoi, also known as Tah Tsai. Anne Elder picked it all fall into December even after a snow melt-off. In winter it was still not burnt by cold and remained sweet. "A dream come true for snow-dwelling beings craving greens." Survived Roberta's overwintering trial. Spoon-shaped thick dark green leaves make beautiful compact rosettes with mild brassica flavor. Good stir-fried and in soups. Will come back when cut. Since our purchaser Nikos Kavanya first brought it to our attention, it has become an essential ingredient in our salads and mesclun. ❄



3221TS Tatsoi ②⑤

A=1/16oz, $1.10 **B**=1/8oz, $2.00 **C**=1/2oz, $3.50
D=1oz, $5.00 **E**=4oz, $12.00 **K**=1lb, $40.00
L=5lb, $190.00

3222TO Tatsoi OG OT-certified. ①

A=1/16oz, $1.30 **B**=1/8oz, $2.40 **C**=1/2oz, $4.00
D=1oz, $8.00 **E**=4oz, $23.00 **K**=1lb, $90.00

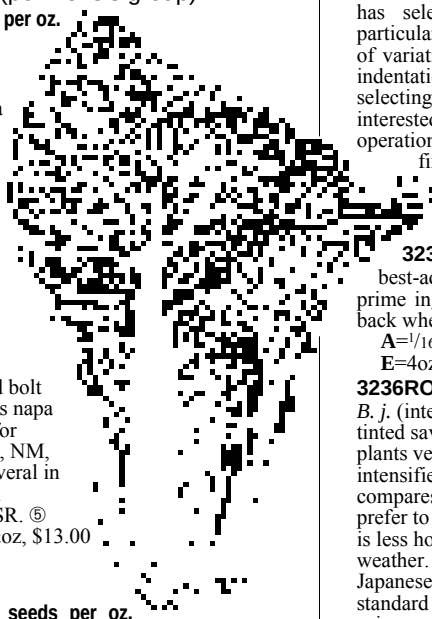
3223YN Yokatta-Na (21 days baby; 45 days mature) *B. r.* (narinosa group) F-1 hybrid. Quick-growing and versatile, this is the same cultivar we formerly sold as Yukosai Bitamin-Na. Tolerating both heat and cold, it can extend your season at either end, while simultaneously broadening your culinary range. Use it either raw in salad mixes or cooked in stir fries. The deep green tender leaves, though flavorful, lack the mustard "bite" found in so many Asian greens and can be harvested as a cut-and-come-again crop or at maturity. ④

A=1/16oz, $1.30 **B**=1/8oz, $2.40 **C**=1/2oz, $4.50 **D**=1oz, $8.00
E=4oz, $26.00

"When all the other seed catalogs go out the recycling pile, I put yours in my pile of good books and study it like a textbook all year!"
—Candace Tuttle, Goshen, IN

CHINESE CABBAGE *B. r.* (pekinensis group)

1/16 oz packet sows 25 ft, approx 9,500 seeds per oz.



3224FJ Fun Jen (45 days) Fast-growing undulating leaves with a slightly wrinkly surface. Customers asked for a lettucy-type Chinese cabbage and in Fun Jen, we found a good one. These semi-loose conical very light yellow-green ruffled 6x10" heads have a crunchy texture and very mild delicate flavor somewhat like lettuce. The thick white ribs are tasty with a pleasing light tangy sweetness. Excellent frost resistance but will bolt in heat after standing 2–4 weeks. Stores very well. Seed from Known-You in Taiwan. ③

A=1/16oz, $1.10 **B**=1/8oz, $2.00
C=1/2oz, $3.50 **D**=1oz, $5.00
E=4oz, $12.00 **K**=1lb, $36.00

3225BL Blues (52 days) F-1 hybrid. Good bolt resistance, disease resistance and taste in this napa type. Flavor is relatively pungent. Suitable for planting early spring through July. In Dixon, NM, elevation 6,000 feet, Adam Mackie grew several in the 10 lb. range, one topping out at 10.75 lb. Moderate tolerance to virus, DM, ALTS, BSR. ⑤

A=1/16oz, $2.20 **B**=1/8oz, $3.80 **C**=1/2oz, $13.00
D=1oz, $25.00 **E**=4oz, $90.00

MUSTARD

1/16 oz packet sows 40 ft, approx 15,600 seeds per oz.

Incorporating the residues of mustard crops into your soil can reduce fungal diseases in your succession crop. Mustards are potent soil fumigants.

3228MO Early Mizuna OG (40 days) *B. r.* (japonica group) Recommended for northland salad enthusiasts, this vigorous heirloom Japanese mustard produces slender white stalks with deeply cut and fringed dark green leaves, not at all pungent. One planting could suffice for full season production if watered in dry spells and kept cut. Many will prefer to make three or more succession plantings because the young leaves are the most tender. "Wonderful minced on garlic popcorn," suggests Anne Elder. Biennial. Essential in mild mesclun. MCCO-certified. ⑤

A=1/16oz, $1.10 **B**=1/8oz, $2.00 **C**=1/2oz, $3.50 **D**=1oz, $5.00
E=4oz, $16.00 **K**=1lb, $45.00 **L**=5lb, $210.00

3229RO Ruby Streaks OG (40 days) *B. r.* As if an artist had carefully brushed deep purple filigree on the delicately serrated leaves of mizuna. Clayton Carter calls it "everything that the so-called Purple Mizuna should be." Bold coloring on deeply toothed leaves. Germinates quickly, grows speedily but, unlike Mizuna, bolts rapidly, though suitable for multiple cuttings if you are quick enough. Provides a striking contrast when bunched either with #**3228** Mizuna, Tokyo Bekana or # **3209** Maruba Santoh. Also unlike Mizuna, has a sweet and spicy flavor, though not excessively hot. Even after it bolts, its flower buds and yellow flowers can add a tang to salads. Carter calls it "the staple of my salad and braising mixes." "A big hit with my chef clients," reports Georgie Smith of Coupeville, WA. Color deepens toward darker maroon in the cool of autumn. WA-certified. ①

A=1/16oz, $1.30 **B**=1/8oz, $2.40 **C**=1/2oz, $5.00 **D**=1oz, $8.00
E=4oz, $25.00 **K**=1lb, $95.00

3230MO Mizspoona Salad Selects Gene Pool OG (40 days) *B. r.* Nikos had never seen me eat that much of any green before! This mix of saladings must have hit my palate just right…didn't bite my tongue off like some of the serious mustards, nor bore me with blandness. Sweet, juicy with a bit of zing, medium-dark green variable leaves, some rounded, some pointed, slightly ribbed white veins. Tender and delicious in salads or braised. From Frank Morton. OT-certified. ①

A=1/16oz, $1.40 **B**=1/8oz, $2.50
C=1/2oz, $6.50 **D**=1oz, $12.00
E=4oz, $40.00 **K**=1lb, $125.00

3232PO Pung Pop Mustard Gene Pool OG (40 days) *B. juncea* Pung Pop stands for Pungent Population, a gene pool Morton selected out of breeding populations from Miike-Horned crosses, pungent Indian mustards. The results are rapid-growing large plants with thick stems, big dark green leaves and handsome red veining. As for the flavor? Peppy would be an understatement. Try hot, as with a hot pepper intensity that bites. In addition to providing good eating, this population is a source for experimenting with different colors and textures to select those you like the most. Survived Roberta's '06–'07 overwintering trial, sitting outdoors under row cover on wire hoops. The outdoor low that winter was –12°F. ❄ OT-certified. ①

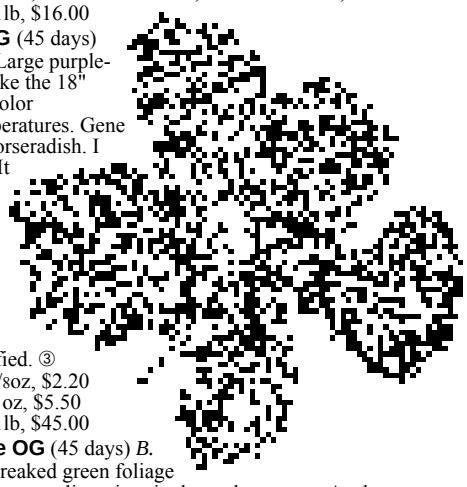
A=1/16oz, $1.40 **B**=1/8oz, $2.50 **C**=1/2oz, $6.50
D=1oz, $12.00 **E**=4oz, $40.00 **K**=1lb, $125.00

3234LO Pink Lettucy Mustard Gene Pool OG (40 days) *B. r.* Morton has selected well-mixed breeding pools for disease resistance and particularly for pink/purple pigmentations on the midribs. There is still a lot of variation in leaf color (from light green to green with purple edges), in indentations of the leaf edges and some in midrib coloration. Morton is selecting from the pool for specific types and you can, too. He is particularly interested in creating more color for baby cut salad mixes. Commercial operations will find a wealth of good cutting, home gardeners terrific salad fixings, mild but with just enough tang to keep you interested. Survived Roberta's overwinter trial. ❄ OT-certified. ①

A=1/16oz, $1.40 **B**=1/8oz, $2.50 **C**=1/2oz, $6.50
D=1oz, $12.00 **E**=4oz, $42.00 **K**=1lb, $130.00

3235GW Green Wave (45 days) *B. j.* This 1957 AAS winner is the best-adapted mustard for our climate. Its hot mustardy flavor makes it a prime ingredient in piquant mesclun. Not as hot when cooked. Will come back when cut; slow to bolt. Survived Roberta's overwintering trial. ❄ ②

A=1/16oz, 70¢ **B**=1/8oz, $1.20 **C**=1/2oz, $2.00 **D**=1oz, $3.50
E=4oz, $6.00 **K**=1lb, $16.00



3236RO Red Giant OG (45 days) *B. j.* (integlifolia group) Large purple-tinted savoyed leaves make the 18" plants very decorative. Color intensifies in cooler temperatures. Gene compares their taste to horseradish. I prefer to call it peppery. It is less hot during cool weather. This heirloom Japanese mustard is a standard ingredient in spicy mesclun. Survived outdoor temperatures down to 18° when double-covered with Agribon 19. CCOF-certified. ③

A=1/16oz, $1.10 **B**=1/8oz, $2.20
C=1/2oz, $3.60 **D**=1oz, $5.50
E=4oz, $13.00 **K**=1lb, $45.00

3239PO Osaka Purple OG (45 days) *B. j.* Striking large purple-streaked green foliage with a zesty flavor that leaves a lingering tingle on the tongue. As the temperatures grow hotter, so do the leaves. A rapid grower, but more compact than Red Giant, mature at 12–14". Broad stems are also succulent. Used like Red Giant for mesclun and braising. AGRIOR-certified. ③

A=1/16oz, $1.20 **B**=1/8oz, $2.20 **C**=1/2oz, $4.00 **D**=1oz, $7.00
E=4oz, $16.00 **K**=1lb, $60.00

3253ZO Toraziroh OG (45 days) *B. alboglabra* A robust performer with just the right kind of mustardy zest. Rapidly develops prolific yields of very dark green large leaves distinctively but not overwhelmingly pungent. In two years of trials won many favorable reviews from brassica lovers. Stems, also edible, have a flavor somewhat like pac choy. Relatively slow to bolt. OT-certified. ①

A=1/16oz, $1.30 **B**=1/8oz, $2.40 **C**=1/2oz, $5.00 **D**=1oz, $8.00
E=4oz, $25.00

Tenderleaf OG *B. r. Not available in 2012;* crop failure.

Chinese Thick-Stem OG *B. j. Not available in 2012;* crop failure.

❄ Season-Extending Greens ❄

Greens marked with ❄ at the end of their descriptions are hardy through at least a portion of our winters in Zones 4 and 5, and probably with protection can survive the entire winter in Zone 6 and south. We continue our trials to add to this selection.

	Spinach		Kale
2510	Space	3452	Redbor
2512	Olympia	3455-6	Red Russian
2540-1	Bloomsdale	3459	White Russian
2550-1	Tyee	3463	Winterbor
2555	Giant Winter	3466	Rainbow Lacinato
2558	Winter Bloomsdale	3465	Beedy's Camden
	Lettuce		**Assorted**
2781	Merlox Red Oak	3021	Ice-bred Arugula
2786	Red-Tinged Winter	3027	Sylvetta Arugula
2788	Oscarde	3049	Claytonia
2791	Tango	3102	Verte de Cambrai Mache
2814	North Pole	3122	Minutina
2816	Winter Marvel	3158	Gigante d'Italia Parsley
2849	Winter Density	3166	Forest Green Parsley
2865	Rouge d'Hiver	3168	Krausa Parsley
2886	Winter Wonderland	3170	Dark Green Italian Parsley
2988	Winter Lettuce Mix	3218	Senposai
		3221-2	Tatsoi
	Mustard	3391	Deadon Savoy Cabbage
3232	Pung Pop Gene Pool	3397	Wirosa Savoy Cabbage
3234	Pink Lettucy Gene Pool	3441	Champion Collards
3235	Green Wave	3443	Cascade Glaze Collards

PAC CHOY *B. r.* (chinensis group)

1/16 oz packet sows 30 ft, approx 12,500 seeds per oz. Also known as Bok Choy. Pac choy and carrots are among the best sources of beta carotene. We trialed baby pac choy in 2011 and found that our present selections #**3260** and #**3264** are as good as any.

3260SH Shuko (45 days) F-1 hybrid. Baby pac choy with green stems likes cool temperatures but resists bolting for a long time, even in heat. Vase-shaped plants have broad green petioles with beautiful dark leaves. Has become very popular with Anne Elder's CSA members. "When you gently steam the stems they become creamy not mush," she observes. 6–12 ⑤
A=1/16oz, $1.20 **B**=1/8oz, $2.20 **C**=1/2oz, $4.20 **D**=1oz, $8.00
E=4oz, $22.00 **K**=1lb, $72.00

3264PP Purple (48 days) F-1 hybrid. Adds versatility to mixes and salad. This new color in pac choy debuted in many 2009 seed catalogs. This was my favorite of several strains in the trial, showing the most vigorous early growth and darkest hue. Purple top leaves contrast with green veins and stems. These quick growers color your patch and attract attention. Within three weeks you can harvest them as baby-leaf greens, their best spring use. For fall crops you may allow them to grow full-sized heads. Along the way they lose some of their deep color and mature to a greenish purple. The purple coloring in vegetables such as this comes from anthocyanins. Research has shown anthocyanins improve memory and cell health. ③
A=1g, $2.80 **B**=2g, $5.00 **C**=4g, $9.00 **D**=14g, $20.00
E=28g, $35.00

3270PO Prize Choy OG (50 days) Classy pac choy with celery-like white stems and vase-shaped 15–18" tall heads. WA-certified. ①
A=1/16oz, $1.40 **B**=1/8oz, $2.50 **C**=1/2oz, $6.50 **D**=1oz, $12.00
E=4oz, $40.00 **K**=1lb, $115.00

3273JC Joi Choi (50 days) F-1 hybrid. Choy to the world! Why would we want to offer yet another pac choy, an F-1 hybrid at that, when we already have the wonderful Prize Choy? Because Joi Choi is that much different. Its leaves are much darker green than Prize Choy's, it is more uniform, a quality valued by market growers, and above all, its basal stem is almost double the thickness of Prize Choy's. Trialer Adam Tomash prefers it to all other varieties because that basal thickness makes Joi so succulent. Suitable both for summer and fall crops, though much less likely to bolt in the fall. Do not disturb the roots when transplanting and space 1' apart. **NEW!** ⑤
A=1g, $1.80 **B**=2g, $3.20 **C**=4g, $6.00 **D**=14g, $18.00
E=28g, $30.00

Major pests: Cabbage Looper, Diamondback Moth, Imported Cabbageworm
Cultural controls: control cruciferous weeds near crop fields, till-under crop debris of early-season brassicas after harvest.
Materials: Spinosad (#**8922-4**), Bt (#**8902**).

Pest: Flea Beetle
Cultural controls: floating row covers (#**9101**), mulch with straw, time plantings for fall harvested crops only, crop rotation, perimeter trap cropping.
Materials: Spinosad (#**8922-4**), Pyganic (#**8925**), Capsaicin (Bugitol #**8890-1**).

Pest: Cabbage Root Maggot
Cultural controls: time planting to avoid first hatching, use row covers, control weeds.
Material: Nematodes (#**8942-3**).

Major diseases: Black Rot, Alternaria Leaf Spot, Blackleg, Club Root, Downy Milldew, White Mold
Cultural controls: avoid transplanting plants with yellow leaves or v-shaped lesions, crop rotation, destroy crop debris after harvest, avoid overhead irrigation, control weeds, allow for good air movement.
Materials: Actinovate (#**8855-6**), copper compounds (#**8851-2**) may help for some of these diseases.

Disease: Head Rot
Cultural controls: use well-domed varieties, harvest heads when tight, cut stalks at an angle.
Material: copper

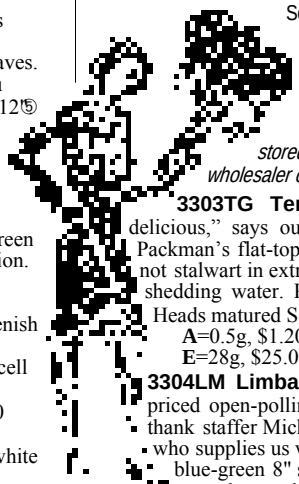
BRASSICA

2 gram packet sows 45 ft. About 8,000 seeds per oz. Hardy. Require warm temperatures to germinate, but need 60s during seedling stage for optimal growth; higher temperatures make seedlings leggy. Heavy feeders; for best growth, need regular moisture and 2–3' spacing. Have done well for us succeeding onions and garlic in beds. Cauliflower and broccoli are damaged by hard frosts, especially in spring. Days to maturity are from direct seeding. Subtract 20 days from date of transplanting.

BROCCOLI *B. oleracea* (botrytis group)

Start broccoli indoors March-May for setting out May-July, or direct-seed in May or June for fall crop. They are easier as fall crops because some varieties perform poorly in hot summers. For better stands in dry conditions sow in trenches. Broccoli dislikes extreme temperature and moisture fluctuations and was a challenge for some of our growers in 2011.

How tastes change! In 1880, Hiram Sibley & Co. offered 37 varieties of cabbage, just 3 of broccoli. Broccoli contains significant levels of sulforaphane, a substance that helps detoxify carcinogens from the body, may limit the damage of serious lung disease caused by smoking and protect against damage to blood vessels caused by diabetes. Research at the University of Illinois indicates that teaming fresh broccoli with a spicy food that contains the enzyme myrosinase enhances broccoli's anti-carcinogenic effects. Suggested teammates include radishes, cabbage, arugula, brussels sprouts, mustard and horseradish or wasabi.



Several years ago research indicating that broccoli seed sprouts are higher in sulforaphane than the vegetable itself caused a run on open-pollinated broccoli seeds. *The broccoli seed which we offer is not food grade and we cannot guarantee that it is fit for human consumption as sprouted seeds. We have no control over the conditions in which it is stored before it reaches us. Please consult your natural foods wholesaler or retailer for sprouting seed.*

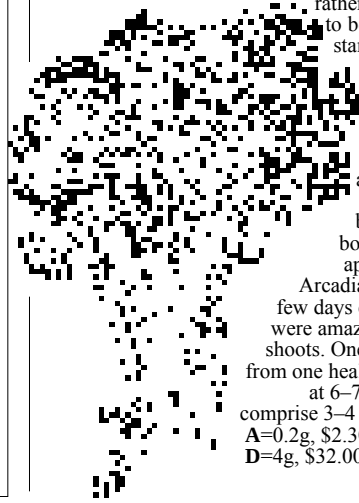
3303TG Tendergreen (67 days) F-1 hybrid. "Tender and delicious," says our trialer Donna Dyrek. Up to a week earlier than Packman's flat-top with a better looking 6–7" semi-domed head, though not stalwart in extreme heat. The medium-large beads do a good job of shedding water. Pleasing blue-green color. No side-shoot production. Heads matured Sept. 5, 2007, from a July 11 transplanting. ③
A=0.5g, $1.20 **B**=1g, $2.20 **C**=4g, $6.00 **D**=14g, $14.00
E=28g, $25.00

3304LM Limba (70 days) So rare these days to find a reasonably priced open-pollinated broccoli that can perform in our summers. We thank staffer Michele Hansen who unearthed the Czech seed company who supplies us with this gem. Donna Dyrek started harvesting its light blue-green 8" semi-domed heads during the first week of August. It proved a good home-garden variety with medium beads, good flavor and texture, slow to bolt and a decent producer of side shoots, though not so many as Fiesta. New in 2011. ③
A=2g, $1.20 **B**=4g, $2.20 **C**=14g, $7.00 **D**=28g, $12.00
E=112g, $40.00

Windsor (75 days) F-1 hybrid. Replaced by # **3315** Gypsy. *No longer available.*

3308PC Premium Crop (82 days) F-1 hybrid. Old standby maincrop broccoli for commercial growers. Uniform, dependable with large 8" heads. Very few side shoots. Harvest early in rainy weather to avoid center rot. 1975 AAS winner from Takii in Japan. Tolerant to DM. ⑤
A=0.5g, $1.40 **B**=1g, $2.20 **C**=4g, $6.00 **D**=14g, $14.00
E=28g, $25.00

3311GK Green King (85 days) F-1 hybrid. Exceptional tenderness made it the best-tasting of 23 varieties in our trial. King also scored high for its consistent yield of large high-quality 8" heads. Market growers appreciate its uniform ripening. Vigorous plants bear thick blue-green domed heads with rather large beads. Side shoots are big enough to be marketable but not plentiful. Green King stands heat well. ③
A=0.5g, $1.40 **B**=1g, $2.20
C=4g, $6.00 **D**=14g, $14.00
E=28g, $25.00

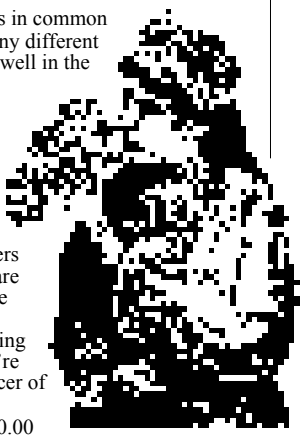


3313FO Fiesta OG (86 days) F-1 hybrid. Our first organic hybrid broccoli, and now our best-selling broccoli, good for midseason. Compact plants set uniform bright green tightly domed heads that stand both cold weather and heat with considerable aplomb. "Fiesta was every bit as beautiful as Arcadia with large well-shaped heads…and was a few days earlier as well," lauded Janine Welsby. We were amazed by its unprecedented production of side shoots. One day in early October 2007 I harvested ten from one healthy plant, the largest as big as a main head at 6–7", several others nearly as hefty, enough to comprise 3–4 supermarket bunches. SKAL-certified. ④
A=0.2g, $2.30 **B**=0.4g, $4.20 **C**=1g, $9.00
D=4g, $32.00 **E**=28g, $170.00

3314DP Diplomat (90 days) F-1 hybrid. Good diplomacy requires good heads, and those this Diplomat can provide. We grew some beautiful blue-green 10" mostly domed heads in our 2007 trials that even George Mitchell might have envied. They featured tight small beads that held extremely well in our enjoyable moderate fall temperatures and even during our briefly uncomfortable August hot spells. A classy broccoli for late summer and fall, well-adapted to our region. Now if it could only make peace between the Israelis and Palestinians… ⑤

A=0.5g, $1.90 **B**=1g, $3.60 **C**=4g, $11.00 **D**=14g, $35.00 **E**=28g, $65.00

3315GY Gypsy (91 days) F-1 hybrid. Gypsy has in common with its namesakes the ruggedness to thrive in many different environments. That means Gypsy holds up pretty well in the heat of summer, the cool of autumn, and in less-than-stellar soil. Reliable producer of large dome-shaped medium-green 8" heads with medium-tight beads that shed water well. Very uniform, very consistent. Stems and plants capable of growing massive; Adam Tomash harvested one head weighing 2.7 lb. From a May 15 indoor start, he cut his first main head on Aug. 14. Donna's was a little later on Sept. 2. Our trialers rate its flavor as excellent, sweet and tender. We are just getting to know this promising broccoli, so we hope that it wasn't so named to warn us that it is headed for the same fate as several other outstanding hybrid broccolis that disappeared in the past. We're not ready to wish it *latcho drom*! Sparse producer of side shoots. Tolerant to DM. **NEW!** ⑤



A=0.5g, $1.60 **B**=1g, $3.00 **C**=4g, $10.00 **D**=14g, $32.00 **E**=28g, $60.00

3318TO Thompson OG (92 days) Open-pollinated. A breeding coup by Tim Peters, who has done much work with open-pollinated broccoli. When grown under fertile conditions, Thompson shows excellent resistance to stress and consistently well-formed dark green heads that average 5-6" in diameter. "Thompson broccoli was outstanding in size with sideshoots that …kept going and going." An excellent open-pollinated broccoli for fall crops. **BACK!** CCOF-certified. ①

A=0.5g, $1.60 **B**=1g, $3.00 **C**=4g, $10.00 **D**=14g, $32.00 **E**=28g, $60.00

3320WM Waltham 29 (92 days) Developed in 1951 and long considered the standard open-pollinated fall broccoli. We've found a reliable strain that consistently produces 6" heads with medium beads on attractive stocky 20" plants. Many hybrids make bigger central heads, but Waltham delivers a goodly number of side shoots. *Caution: not suitable for summer crops, will not head properly in heat.* ②

A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.50 **D**=28g, $3.50 **E**=112g, $6.00 **K**=448g, $15.00

3324AR Arcadia (94 days) F-1 hybrid. Alan LePage's favorite broccoli and the one to grow in hot summers, it rocks in conditions that reduce other broccoli to compost. LePage's sustained minimal damage during one 95° early September heat wave, and bounced back quickly after rain. Arcadia's gently mounded dome-shaped frosty bluish-green heads of very refined small beads are consistently marketable and hold a long time. Big and rugged, Arcadia stands up not just to heat, but also to rot, mildew and cold stress. For a copious production of robust side shoots, LePage sidedresses plants after cutting the main heads. Arcadia is well worth the extra effort, he says. *The best broccoli for midsummer is good in fall, too.* You never know what global warming might bring, so be prepared with Arcadia. ⑤

A=0.5g, $1.70 **B**=1g, $3.20 **C**=4g, $9.50 **D**=14g, $26.00 **E**=28g, $50.00

Umpqua OG (95 days) Open-pollinated. No grower; *not available in 2012.*

3326BB Broccoli Blend (67-95 days) For home gardeners who want broccoli to mature over a long season, a mix of varieties in one packet makes a lot of sense. Begin your harvest with Tendergreen and carry through to Arcadia without having to purchase a full packet of each kind. Varieties in the mix change with availability, but no Romanesco or Piracicaba.

A=0.5g, $1.60 **B**=1g, $3.00 **C**=4g, $10.00 **D**=14g, $26.00 **E**=28g, $50.00

Non-Heading Broccoli *B. o.* (botrytis group)

Piracicaba (56 days) Open-pollinated. Alas, crop failure. *Not available in 2012.*

Romanesco *B. o.* (botrytis group)

Chef Odessa Piper calls romanesco's cone-shaped somewhat irregular whorl of chartreuse florets "broccoli on acid." Undeniably one of the most beautiful plants in the garden when grown well. According to **www.almostachef.com "**its shape is a perfect illustration of the mathematical principle of fractals…all florets are identical to one another though the size may change," and each one multiplied is an exact replica of the whole. The florets grow in a spiral called the Fibonacci series "following the golden number believed by Renaissance artists to be the origin of aesthetic harmony." Needs adequate spacing, a long season and extremely high soil fertility. We had fantastic results planting in raised beds with 8" of well-rotted manure. Well-grown plants are huge, and need about 10 sq ft each. Should be started indoors in March or April and transplanted out in late May or June. Be patient; needs a long season but doesn't mind cool weather.

3329TO Tipoff OG (100 days) F-1 hybrid. The best and most reliable of the three romanesco broccolis in our 2007 trials. Headed consistently with good size and uniformity in early September from an April 28 seeding and June 3 transplanting. A much later planting began to head in mid-October. If you require romanesco for market and can't afford to play roulette, a modern hybrid like Tipoff is worth the extra seed cost. SKAL-certified. ④

A=0.1g, $2.50 **B**=0.3g, $7.00 **C**=1.2g, $25.00 **D**=6g, $100.00 **E**=24g, $360.00

BRUSSELS SPROUTS *B. o.* (gemmifera group)

"They are a delicacy not surpassed by the finest cauliflower," asserts the 1915 Salzer catalog. I agree, but like cauliflower, they are fussy. They must be started indoors no later than early April and transplanted into very fertile soil. A real key to success is to top the plants around Sept 1. When I experimented by topping some and leaving others, the difference was dramatic. Within two weeks the topped plants were putting all their energy into making sprouts while the untopped plants continued to shoot up more foliage and make only miniscule sprouts. Very hardy, improved by frost and can be harvested past the first snowfall.

3336RN Roodnerf (96 days) Open-pollinated. So far the best open-pollinated brussels sprout we've found. By late September 2007 these vigorous medium-large colorful plants had set plump green sprouts along their stems. These were robust and flavorful berries, not up to the size of the best hybrids or as uniform, but dwarfing those of the o-p competition. Not as good in my 2009 trial on sandy loam; they may prefer clay. Purple stems along axils lend a decorative touch to the plants. ②

A=2g, $1.10 **B**=4g, $2.00 **C**=14g, $5.00 **D**=28g, $8.00 **E**=112g, $25.00

3338FS Falstaff (98 days) Open-pollinated. We'll raise a glass to Falstaff. We loved the beauty of red varieties such as Rubine, but never could get a single sprout to mature until we found Falstaff. From Thompson & Morgan, the first red brussels sprout to ripen in our climate, Falstaff is not only ornamental but also extremely savory. Cooking brings out its tender nutty sweetness while allowing it to retain bluish purple pigments. It cooks quickly, though, so don't overdo it. Good production in our 2003 plot, only fair in 2004, sprouts with beautiful color, wide size variation, but most quite small compared to the green hybrids. The color intensifies after a hard frost. The plants tend to sprawl. ③

A=2g, $1.20 **B**=4g, $2.20 **C**=14g, $5.50 **D**=28g, $10.00 **E**=112g, $28.00

3339GU Gustus (99 days) F-1 hybrid. 2009 was the perfect year to grow brussels sprouts. Faced with the daunting task of replacing Oliver, I set out 76 plants representing 7 different varieties, most on May 27. All loved the cool temperatures and 23 days of rain in June, and thrived in my sandy loam, growing enormous and disease-free. While nothing can match Oliver's ease of growing, earliness and huge production, Gustus made a valiant effort and by late September boasted lovely sprouts. They were medium-sized, slightly oval, remarkably uniform (perfect for market) and grew large further up the stalk after I topped the plants Sept. 7. They showed not a hint of rot, even after our two hurricane rains. A representative sample of 10 weighed a respectable 6 oz. Best of all, they won our taste test, with a smooth texture and no cole-ish aftertaste. Audrey Newcomb of Rochester, NY, reports that our sales rap "was not hype. They are glorious." Enjoy them with gusto! ⑤

A=0.5g, $2.50 **B**=1g, $4.80 **C**=4g, $18.00 **D**=14g, $55.00 **E**=28g, $100.00

3344DB Diablo (110 days) F-1 hybrid. Our customers have yet to give this devil its due. It might be a little slow getting going, but for those who have a long enough season, Diablo is a dependable and productive variety. These are uniform good-looking solid medium-sized sprouts of good quality. A representative sample of 10 sprouts weighed 7 oz. in the 2009 trial. CSA grower Jan Goranson recommended Diablo for its disease resistance and ability to produce a consistent sprout every time. ④

A=0.5g, $2.70 **B**=1g, $5.20 **C**=4g, $20.00 **D**=14g, $60.00 **E**=28g, $115.00

"Love the letter included with the seed."
—Bridget Lamp, Seattle, WA

CABBAGE *B. o.* (capitata group)

Recent efforts to eat more local produce are turning people's attention back to lactic fermentation, the age-old method for making pickled foods like sauerkraut and kimchi. Easy to do at home, lactic fermentation is the work of a succession of microbial species. The first ones produce lactic acid making the mix acidic, killing undesirable organisms and fostering microbes that complete the reaction. Sauerkraut is immune-enhancing and easier to digest with more available nutrients than raw cabbage. See *Preserving Food without Canning or Freezing* (#**9802**) and *Wild Fermentation* (#**9874**) in the book section for explanations and recipes.

Blue-purple foods such as red cabbage and purple cauliflower contain anthocyanins and phenolics which benefit the urinary tract, memory and immune system.

Minimum germination soil temperature 40˚, optimal range 55–95˚, optimal temp. 77˚, emergence takes 15 days at 50˚, 9 days at 59˚, 5 days at 77˚.

See also #**6427** Danish Ballhead.

3352GA Golden Acre (62 days) Open-pollinated. The best choice for those preferring an early open-pollinated cabbage that's not a pointy-headed intellectual from Jersey. A selection of the Copenhagen Market type billed as "new…the earliest of the round-headed cabbages" in the 1928 Jerome B. Rice catalog. Heads average 3–5 lb. Short stems with sparse wrapper leaves and medium-sized core keep it compact. Astandard variety in 6-pack plant sales. Home gardeners esteem its excellent flavor, particularly in the sweet tender hearts. Grey-green head with white interior. Not long standing. ②

A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.80 **D**=28g, $4.00
E=112g, $9.00 **K**=448g, $17.00

3355EJ Early Jersey Wakefield (63 days) Open-pollinated. This wonderful early cabbage originated in England in the early 1800s, was first grown in America in 1840, perfected by a German truck gardener in northern New Jersey and released by Peter Henderson in 1868. Henderson in 1902 asserted that "it was more largely grown than all other first early cabbages combined" and called it an "old reliable always to be depended upon for its uniformity in earliness and crop." Anne Elder has found it to be a fantastic fall cabbage as well. Wakefield's compact medium 2–3 lb. heads are distinctively pointy. The pyramidal shape with sparse outside foliage permits close spacing. Tender flavorful waxy-looking Wakefield has stood the test of the ages and is still prized by home and market gardeners. ②

A=2g, 80¢ **B**=4g, $1.20
C=14g, $2.80 **D**=28g, $4.00
E=112g, $7.00 **K**=448g, $17.00

3358GZ Gonzales (66 days) F-1 hybrid. These days many families like compact cabbages. Commercial growers like them, too, because they can plant densely for a high return per acre. Gonzales is our choice in the early baby cabbage class. The round upright heads are slightly larger than softballs when mature, about 4–6" in diameter weighing no more than 3 lb. Good medium-green color with a short core. Dense, sweet and spicy with good holding qualities④

A=0.5g, $1.60 **B**=1g, $3.00 **C**=4g, $10.00 **D**=14g, $26.00
E=28g, $50.00

3370SR Super Red 80 (80 days) F-1 hybrid. Super Red 80 ripens well before Ruby Perfection, with smooth tight round medium-dark red 3–5 lb. heads. Splendid appearance will please market growers. Resists splitting. Tender and crisp with a pleasing flavor. ⑤

A=0.5g, $1.80 **B**=1g, $3.00 **C**=4g, $10.00 **D**=14g, $32.00
E=28g, $60.00

3375RP Ruby Perfection (85 days) F-1 hybrid. This fancy midseason type has produced some of the loveliest cabbage we've ever seen: solid deep purple-red spherical heads averaging 4–6 lb, occasionally reaching 8 lbs. A great storage cabbage; will keep till May in the root cellar. Low tolerance to BR. Survived outdoor temperatures of 18° double-covered under Agribon 19. ⑤

A=0.5g, $2.10 **B**=1g, $4.00 **C**=4g, $13.00
D=14g, $42.00 **E**=28g, $80.00

3378ML Melissa Savoy (85 days) F-1 hybrid. A gorgeous savoy, with 2–4 lb. solid slightly flattened light green heads surrounded by attractive dark blue-green waxy wrapper leaves. A vigorous grower even in cold wet conditions, Melissa ripens around Sept. 1 from early June transplanting. Flavor improves with cold weather. Adapted to close spacing. For dependability, uniformity, attractiveness and taste, Melissa can't be topped. FY, TB tolerant. ④

A=0.5g, $2.30 **B**=1g, $4.20 **C**=4g, $16.00
D=14g, $52.00 **E**=28g, $100.00

3380FG Frigga Savoy (86 days) Open-pollinated. Frigga was the Norse goddess of marriage and motherhood. Though usually compact 3 lb. round 6" balls, the perfectly proportioned specimen exhibited this year at Common Ground Fair was twice that size. With its highly savoyed dark green wrapper leaves curling tightly around the core, it was as handsome a plant as I ever hope to see! Real cabbage flavor with some sweetness, texture on the dry side. Holds in the field for a month after maturity. For savoy conoisseurs. ③

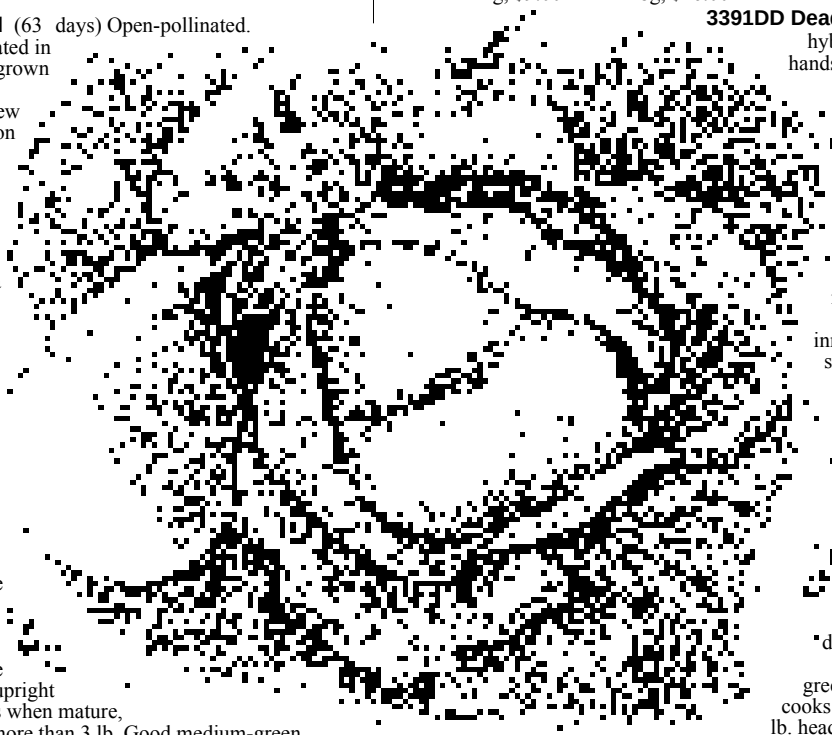
A=2g, $1.30 **B**=4g, $2.50 **C**=14g, $5.00 **D**=28g, $8.50
E=112g, $28.00 **K**=448g, $90.00

3384DV Des Vertus Savoy (95 days) Open-pollinated. From the 1800s, also known as Large Drumhead Savoy. A writer in the May 1882 *American Agriculturist* urged that "savoy cabbage is as much superior to the common hardheaded kinds as the least cultivated grape is superior to the ornamental fox-grape of the woods." French variety features large medium-green heads averaging 4–6 lb. Flavor is mild and juicy, semi-sweet. ②

A=2g, $1.20 **B**=4g, $2.20 **C**=14g, $4.50 **D**=28g, $7.00
E=112g, $18.00 **K**=448g, $60.00

3389RR Mammoth Red Rock (100 days) A large late storage cabbage with firm flattened round 5–8 lb. heads, 8–10" across and red-purple to the core. Rated as a good keeper with a crisp sweet taste. This open-pollinated favorite goes back to 1889. Vaughan in 1904 called it "the surest heading red cabbage ever introduced." R.B. Dunning & Co. of Bangor, ME, sold a packet for a nickel and an ounce for 35¢ in 1936. ②

A=2g, 70¢ **B**=4g, $1.20 **C**=14g, $2.50 **D**=28g, $3.50
E=112g, $9.00 **K**=448g, $16.00



3391DD Deadon Savoy (105 days) F-1 hybrid. You won't find a more handsome cabbage than Deadon. Its savoyed pinkish-purple outer leaves, often used for garnish, are dusted with grey, while its interior core, great for salads and cole slaw, is light green. The outer color of this January King-type intensifies as temperatures cool in the fall. Sets solid medium-large 3–6 lb. heads with densely packed innermost leaves that are very sweet with a spicy nip. Dead certain to be a flavorful cool-weather treat, it even over-wintered in Donna's trials, so it can nourish you in spring as well as late fall. Resists Y. **NEW!** ❄④

A=0.1g, $2.00
B=0.3g, $3.80
C=1.2g, $12.00
D=6g, $45.00
E=24g, $160.00

3392GM Gunma (110 days) F-1 hybrid. Our choice for a superior flat-topped green storage cabbage ideal for cooks and gourmets. Its large 5–7 lb. heads grow nearly 1' across, yet remain almost coreless. Although ready on Aug. 2 from a May 21 transplanting, these cabbages sat in the field for two months without splitting. Sweet tender wrapper leaves suitable for cabbage wraps and rolls. ④

A=0.2g, $1.70 **B**=0.4g, $3.20 **C**=1g, $6.00 **D**=4g, $20.00
E=28g, $105.00

3394BT Bartolo (115 days) F-1 hybrid. Consider Bartolo if you need an excellent hybrid storage cabbage that will last and last. Sits high off the ground with large round 4–8 lb. dark green heads, well-protected with waxy thick serrated wrapper leaves. Very high-yielding. Tolerates BS and TB. ④

A=0.5g, $2.60 **B**=1g, $5.00 **C**=4g, $20.00 **D**=14g, $68.00
E=28g, $130.00

3397WR Wirosa Savoy (125 days) F-1 hybrid. A savoy cabbage ideal for late autumn or capable of wintering over with protection. The solid uniform 8" glossy blue-green heads are closely wrapped with crinkly leaves. From an Aug. 18 start and mid-September transplanting, 4 of 6 survived winter with no protection except snow cover. They continued growing all the next summer, not finishing until mid-September, so as a winter cabbage they need more than a year. With an early spring start they'll be ready the same fall. Good yields and quality for fresh market and storage. ❄ ④

A=0.1g, $2.00 **B**=0.3g, $3.80 **C**=1.2g, $11.00
D=6g, $42.00 **E**=24g, $150.00

Weight equivalents

1 gram =	.035 oz
2 grams =	.070 oz
3 grams =	.106 oz
4 grams =	.141 oz
7 grams =	.247 oz
10 grams =	.355 oz
14 grams =	.494 oz
15 grams =	.528 oz
20 grams =	.710 oz
28 grams =	.987 oz
100 grams =	3.53 oz or .220 lb
112 grams =	3.95 oz or .247 lb
225 grams =	7.93 oz or .496 lb
340 grams =	11.99 oz or .750 lb

CAULIFLOWER *B. o.* (botrytis group)

Start like broccoli but needs more TLC. Do not allow to get pot-bound; avoid interruptions in growth. Cauliflower heads will "button" under stress. When heads first appear, bend leaves over curd to prevent discoloring.

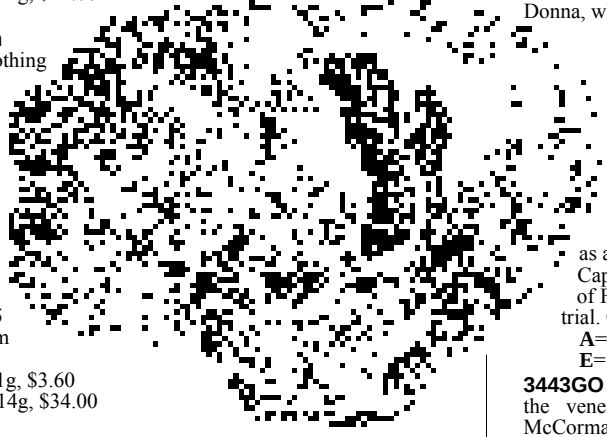
Minimum germination temp. 40˚, optimal range 55–80˚, ideal temp. 77˚, emergence takes 20 days at 50˚, 10 days at 59˚, 6 days at 68˚, 63% normal seedlings at 77%, only 45% normal seedlings at 86˚.

3404CS Charming Snow (60 days) F-1 hybrid. When the trade dropped Majestic, Charming Snow seized the mantle as our first early cauliflower. Its short white stems bear compact 1–2 lb. uniform round firm white tight heads with fine beads. Though seeded as late as July 8, these were already heading for Donna Dyrek by the first of September. A fine product of Taiwanese breeding. ③

A=0.5g, $1.20 **B**=1g, $2.20
C=4g, $6.00 **D**=14g, $14.00
E=28g, $25.00

3410SC Snow Crown (70 days) F-1 hybrid. Nothing comes close to Snow Crown for the second-early slot. Makes cauliflower a cinch to grow. Dependable producer of uniform 6–7" heads early summer through October. Drought resistant. Sometimes develops pink heads in adverse conditions. 1975 All-America winner from Takii. ⑤

A=0.5g, $1.90 **B**=1g, $3.60
C=4g, $10.00 **D**=14g, $34.00
E=28g, $65.00



3417GR Graffiti (80 days) F-1 hybrid. As if aliens had landed in the cauliflower patch, the brilliant, almost psychedelic, purple of these good-sized heads is decidedly other-worldly. It will surely draw customers to your market display and keep them lingering. Much brighter purple than # **3421** Violet Queen, Graffiti boasts a true cauliflower head on large plants with dark green leaves. Resists summer heat and performs even in drought, but very slow to head up in cool weather. Day-glo florets make delightful crudités, a delicious cooked vegetable or colorful kimchi. The color fades to bluish-purple when cooked, but can be preserved by adding a tablespoon of lemon juice to the cooking water. ⑤

A=0.1g, $2.10 **B**=0.2g, $3.40 **C**=1g, $13.00 **D**=4g, $50.00
E=16g, $170.00 **K**=32g, $320.00

Violet Queen (80 days) F-1 hybrid. *Not available in 2012.*

Cassius OG (84 days) F-1 hybrid. Knocked out by the trade; *no longer available.*

3428SM Snow Mystique (86 days) F-1 hybrid. With Cassius on the ropes, our Cauliflower selection looked about to take an awful beating, but don't count us out too soon! Along comes Snow Mystique which has all the right qualities to fill in for Cassius on your season's card without skipping a beat. On Oct. 11 our trialer noted, "I went out today and found two absolutely beautiful and large cauliflower heads. They were Snow Mystique. Big, tight and gorgeous! What a treat." Mystique has all the attributes we loved in Cassius: clean, white, dense well-proportioned heads, the same good upright habit and the dome shape to ward off excess moisture plus a tender flavor not expected from such a massive plant. Massive it was, heads rated at 1.8 lb. average by our supplier, but double that weight in our trial. Perfect for the end of September and early October when cauliflower is at its best in our climate. Mystique has answered the bell and is surely a contender for the heavyweight championship of cauliflower. Now don't blame us if you get cauliflower ear! ④ **NEW!**

A=0.5g, $1.80 **B**=1g, $3.20
C=4g, $12.00 **D**=14g, $40.00
E=28g, $70.00

3438CC Candid Charm (95 days) F-1 hybrid. Charm produces large curds, in the same class as Dominant, but less fussy. Holds snow-white color a long time. Recommended for fall crops only. We've grown some awesome heads, most in the 3–4 lb. range. For years I bragged about the 12x14", 6 1/2 lb. head I grew that won a cauliflower-growing contest with Celeste Dore in 1987. However, I've been topped by Adam Tomash and June Zellers who produced an astounding 9-pounder and by Janine Welsby who was close behind at 8 1/2 lb! Welsby lauds Charm for producing beautiful tight white heads "even in marginal years." ⑤

A=0.5g, $2.20 **B**=1g, $4.00 **C**=4g, $15.00 **D**=14g, $48.00
E=28g, $90.00

3440SY Symphony (96 days) F-1 hybrid. These immense heads, up to a foot across, look like they were injected with BGH—that's Brassica Growth Hormone, for the uninitiated. They were the classiest as well as the largest cauliflowers Donna ever grew, as tight as they were enormous, with no hollow stems. She raved about their sweetness and lack of brassica bite. Maybe we should just credit superior genetics. Donna started the seeds on May 30, transplanted them on July 8 and harvested Symphony the 2nd week of October 2007. Requiring a long season, Symphony is for fall harvest only. Donna, what's in that manure you use, anyway? ⑤

A=0.2g, $1.80 **B**=0.4g, $3.00 **C**=1g, $5.50
D=4g, $20.00 **E**=28g, $100.00

COLLARDS *B. o.* (acephala group)

To avoid flea beetles, plant in July for Sept. maturity. Resembles kale, but not savoyed. William Woys Weaver says that the term collard is a corruption of colewort. Coleworts were kales or small cabbages in their leafy state before heading.

3441CH Champion (60 days) Open-pollinated. Rich dark Vates strain selected to stand longer. Thin to 12" apart for good size. Best as a fall crop. For greens into November in northern New England. On Cape Cod, Lillian Kuo was still harvesting Champion the second week of February without protection. Also survived Roberta's overwintering trial. Our southern friends enjoy the greens all winter. ❄ ②

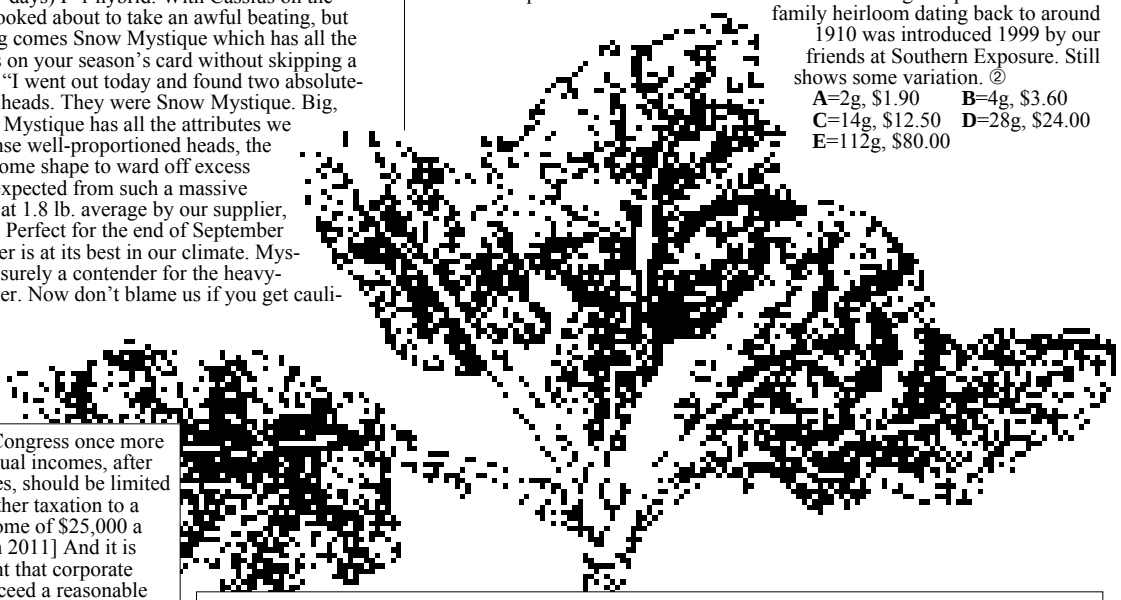
A=2g, 70¢ **B**=4g, $1.10 **C**=14g, $2.00 **D**=28g, $3.00
E=112g, $4.00 **K**=448g, $13.00

3443GO Cascade Glaze OG (60 days) Open-pollinated. A reselection of the venerable 1820 heirloom Green Glaze by Alan Kapuler, Jeff McCormack and Carol Deppe (see **9635** & **9815** in the books section). Endeared to southerners as "creasy" or "greasy" greens for its smooth glossy green leaves. The waxy texture that gives the leaves their distinctive green sheen also imparts heat and cold tolerance and resistance to cabbage worms and loopers. Where temperatures stay above 0 °, Glaze can overwinter. The delicate-looking leaves, delicious steamed, are at their sweet tender best early in the season or in late fall after they've been nipped by frost. ❄ WA-certified. ①

A=2g, $1.50 **B**=4g, $2.80 **C**=14g, $6.00 **D**=28g, $10.00

3444VC Variegated ECO (61 days) Open-pollinated. A prime example of the old adage that first appearances can be deceiving. In my initial look at Donna Dyrek's trials one August its waxy leaves had taken on a sickly yellow-green hue. When I returned after the nights got nippy the plants had transformed, developing beautiful white ribs for a dazzling display of contrasting color. Not just eye candy, they're also sweet and tender eating. Dyrek has been enjoying them for years. When fall comes around she throws the Champions to the animals and heads for the Variegated patch. Florida family heirloom dating back to around 1910 was introduced 1999 by our friends at Southern Exposure. Still shows some variation. ②

A=2g, $1.90 **B**=4g, $3.60
C=14g, $12.50 **D**=28g, $24.00
E=112g, $80.00

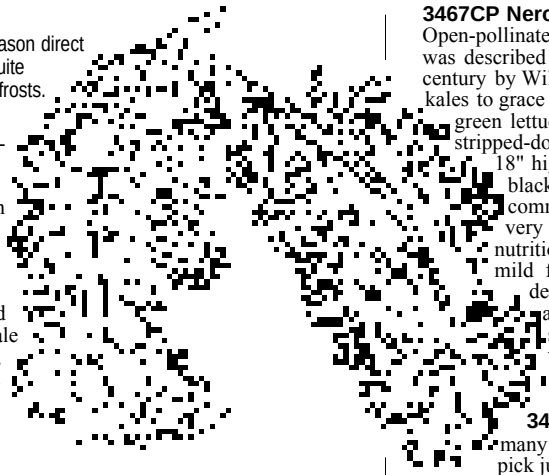


"…I have told the Congress once more that all net individual incomes, after payment of all taxes, should be limited effectively by further taxation to a maximum net income of $25,000 a year. [$330,000 in 2011] And it is equally important that corporate profits should not exceed a reasonable amount in any case.…The nation must have more money to run the War. People must stop spending for luxuries. Our country needs a far greater share of our incomes.… Fireside Chat 9/7/42

"Your letter and your company encourage me to hope that organizations and groups of citizens can still make some headway in the fight for healthier food, a fairer health care system, a greener environment—ultimately a more equitable democracy where all of our citizens get a fair shake!"
—David Kostka, Juda Springs Farm, Juda, WI

KALE

To avoid the worst of the flea beetle season direct seed in July for Sept. maturity. Kale is quite hardy and the flavor is enhanced by fall frosts.



3452RB Redbor (60 days) *B. o.* (acephala group) F-1 hybrid. A spectacular all-red kale, highest rated in the OSU trials. Frilly ruffled leaves take on dramatic purple coloration in cool weather. A superb ornamental edible, gorgeous enough to make a terrific flower border or edge plant. Can be grown in summer but really comes into its own in fall. Quite cold hardy. Grows to 3'. For a rainbow kale patch interplant with White Russian, Red Russian, Winterbor and Nero di Tuscana. ❄ ④

A=0.5g, $3.00 **B**=1g, $5.80 **C**=4g, $23.00 **D**=14g, $80.00 **E**=28g, $150.00

Red Russian (60 days) *B. napus* (pabularia group) Open-pollinated. Called Buda Kale by Fearing Burr in 1863, Ragged Jack by Vilmorin-Andrieux in 1885, and Communist Kale in 2006 by workers at Darthia Farm in Gouldsboro, ME. Russian traders brought this Siberian heirloom to Canada in the 19th century. It has undergone a rousing revival in the last dozen years. Its oakleaf foliage colors after fall frosts. Red and purple leaves change to dark green when cooked. Use soon after picking, or chill leaves in cold water; otherwise wilts quickly. Vigorous edible landscape plant has proven a big hit with customers for its unsurpassed tenderness and delicate flavor. Tolerates outside temperatures of 14 ° double-covered under Agribon 19. ❄

3455RC Red Russian ②③

A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.80 **D**=28g, $4.00 **E**=112g, $7.50 **K**=448g, $21.00 **L**=5lb, $95.00

3456RO Red Russian OG CCOF-certified. ③

A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $3.50 **D**=28g, $5.50 **E**=112g, $14.00 **K**=448g, $44.00 **L**=5lb, $190.00

3459WO White Russian OG (60 days) *B. n.* (pabularia group) Open-pollinated. A flat-leaf Siberian type, silvery green with white veining. Similar to Red Russian, but a few inches taller, a third more productive, with larger, more serrated leaves. Also, much hardier than Red Russian, will hold into November without protection and thrive in an unheated greenhouse, even if temperatures go down to 0 °. Gene has harvested White Russian outdoors in Waterville out of the January snow. If season is extended, White Russian will produce new clusters of smaller tender secondary leaves from old axils. As with other Siberian kales, flavor gets sweeter with frost. ❄ OT-certified. ①

A=2g, $1.50 **B**=4g, $2.80 **C**=14g, $8.00 **D**=28g, $13.00 **E**=112g, $42.00 **K**=448g, $150.00

3463WB Winterbor (60 days) *B. o.* (acephala group) F-1 hybrid. Winterbor was the most vigorous grower in each of our last three kale trials, showing the best cold hardiness and the richest blue-green color. Curled leaves are highly ruffled with good mild flavor, especially after they've been tickled by some of our frigid November nights. "Great in summer, after a frost, and in winter," says Bill Half. ❄ ④

A=0.5g, $1.80 **B**=1g, $2.80 **C**=4g, $10.00 **D**=14g, $34.00 **E**=28g, $64.00

3465BO Beedy's Camden OG (60 days) Open-pollinated. Could give Camden, currently known as a tourist attraction on the Maine coast, a new claim to fame. Social justice advocate Beedy Parker provided us with seed for this hardy green kale that overwinters for her in Zone 5. Abundant wavy blue-green leaves are full to the bottom, not as tightly ruffled as Winterbor. More tender than the Siberian types and lasts longer into the fall. We received several customer plaudits pleading with us to bring this variety back. Emily Vermecky of Bozeman, MT reported that it survived snow and temperatures as low as –20 °. "Juicy and sweet in the spring, satisfying even when people are looking forward to lettuce," said Catherine Creeger of Ithaca, NY. We have a good-sized crop. ☘2009. ❄ OT-certified. ① **BACK!**

A=2g, $1.50 **B**=4g, $2.80 **C**=14g, $6.00 **D**=28g, $10.00 **E**=112g, $30.00 **K**=448g, $110.00

3466LO Rainbow Lacinato OG (61 days) Who but Frank Morton would think to cross Lacinato with Redbor? The result? A stunning new kale that combines some of the best features of both. It looks like Dinosaur kale overlaid with reds, blues and purples. In addition to its color, Redbor lends its productivity, super cold hardiness and reluctance to bolt to this heavenly combination. Curly edges, red veins, purple leaves, blue-green leaves, what a banquet of diverse shapes and colors! ❄ OT-certified. ①

A=2g, $1.50 **B**=4g, $2.80 **C**=14g, $8.00 **D**=28g, $12.50 **E**=112g, $44.00

"Thank you for caring more about people than the bottom line!"
—Heather Kerr, Wheat Ridge, CO

3467CP Nero di Tuscana or **Lacinato** (62 days) *B. o.* (acephala group) Open-pollinated. Also known as Dinosaur Kale and Cavolo Palmizio. Nero was described by Vilmorin-Andrieux in 1885 and traced back to the 18th century by William Woys Weaver who calls it "one of the most beautiful kales to grace any kitchen garden" and suggests interplanting with a vivid green lettuce for a spectacular color combination. Nero is elemental, a stripped-down version of kale shaped like a miniature palm tree about 18" high. Very dark green wrinkled strap-like leaves appear almost black at a distance, looking minimalist compared with the more common lush curly-leaved kales. Its tough leaf strength makes it very sturdy for distributing into CSA boxes. Delicious and nutritious as well as adapted to a wide temperature range, its sweet mild flavor improves after frost. According to Alan LePage, it demands more fertility than other kales. If it is looking anemic after the summer flea beetle invasions, LePage recommends side-dressing it with fertilizer or compost. Using this treatment, he's grown 6 ft. plants! ②

A=2g, $1.20 **B**=4g, $2.20 **C**=14g, $4.50 **D**=28g, $9.00 **E**=112g, $26.00 **K**=448g, $75.00

3469KM Kale Mix (60-63 days) Now that we've added so many tempting choices to our kale selection, maybe it's hard to pick just one or two. Here's the solution: enjoy the whole medley of diverse colors, patterns and shapes for a mere buck fifty.

A=2g, $1.50 **B**=4g, $2.80 **C**=14g, $8.00 **D**=28g, $14.00 **E**=112g, $50.00

KOHLRABI *B. o.* (gongylodes group)

Don't like kohlrabi? Try harvesting it young when it tastes like a humble version of the globe artichoke. Its texture turns tough, woody, and inedible if you wait too long.

3471KB Kolibri (45 days) F-1 hybrid. The best purple kohlrabi we've found: quick growing, very uniform, purple on the outside, crisp and white on the inside, reliable, good-tasting and productive. Interplant with #**3036** Bright Lights swiss chard for a dazzling display. ④

A=0.5g, $2.00 **B**=1g, $3.80 **C**=4g, $15.00 **D**=14g, $50.00 **E**=28g, $95.00

3475WV Early White Vienna (58 days) Open-pollinated. Early dwarf heirloom variety with short tops and medium stems. Bulbs have crisp white tender flesh with a pungent taste. From Central Europe before 1860. ②③

A=2g, 80¢ **B**=4g, $1.20 **C**=14g, $2.50 **D**=28g, $3.50 **E**=112g, $5.00 **K**=448g, $16.00

3478GI Gigante (130 days) Open-pollinated. You might guess that these get enormous. And they do, regularly exceeding 10" in diameter and 10 lb. According to Nichols Garden Nursery, the world record is 62 lb, leaves included. Unlike other kohlrabi, this Czechoslovakian heirloom doesn't get woody even when it grows enormous. Gigante's crisp white mildly tangy flesh will add zest to your meals while you await the first edible greens of spring. Sow in spring for late fall harvest. A root cellar staple and a favorite of Jason Kafka who plants a 300' bed. ③

A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $4.00 **D**=28g, $8.00 **E**=112g, $16.00 **K**=448g, $50.00

RAAB

3485QT Quarantina (40 days) Open-pollinated. *B. rapa* (ruvo group) Also known as Rapini here and *Broccolo Asparago* in Italy, *Quarantina* means '40 days.' Raab is a non-heading version of broccoli with a more pungent flavor. Harvest young stems, leaves and small flower buds. Steam, stir-fry or add to salads. Many people try this as a spring crop with poor results. If the flea beatles don't get you, the summer heat will. Raab is much better as a fall crop. It will hold a lot longer and cool nights improve the flavor. Tender tips of young kale leaves make a better spring crop. ②

A=2g, $1.00 **B**=4g, $1.80 **C**=14g, $4.00 **D**=28g, $6.00 **E**=112g, $15.00 **K**=448g, $45.00

Even'Star American Rapa OG (27 days for mesclun, 40 days to full leaf) *B. o. Not available in 2012;* crop failure.

…It is well for us to remember that humanity is a long way from being perfect and that a selfish minority in every walk of life—farming, business, finance and even Government service itself—will always continue to think of themselves first and their fellow-being second.…

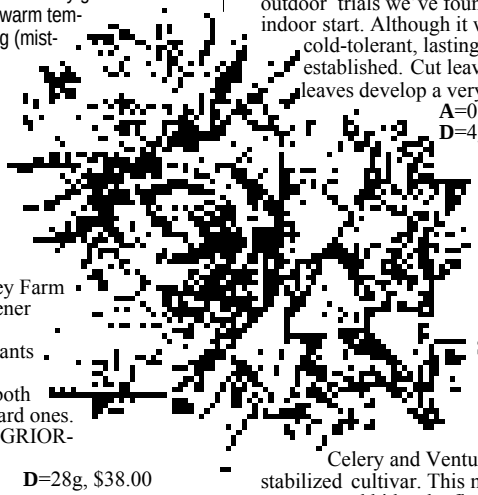
…I have pointed out to the Congress that we are seeking to find the way once more to well-known, long-established but to some degree forgotten ideals and values. We seek the security of the men, women and children of the Nation.… Fireside Chat 6/28/34

ARTICHOKE, CELERY, EGGPLANT, OKRA

Days to maturity are from date of transplanting, not seeding.

GLOBE ARTICHOKE *Cynara scolymus*

Artichoke seed needs vernalization to trick it into thinking it has already gone through a season of growth. Start indoors in mid-February at warm temperatures (at least 60˚) avoiding direct hot sun or overwatering (misting is preferred). Transfer after 6 weeks to a cold frame when outdoor temperatures stay above 25˚. Keep as cool as possible over the next 6 weeks without going below 25˚. Set out with IRT plastic mulch (#**9096-8**) and/or row covers (#**9101**). Feed heavily and give lots of moisture and lots of space (10 sq ft per plant). **~20 seeds/g.**



3608SO Imperial Star OG (120 days) Open-pollinated. Developed in 1991 by Wayne Schrader and Keith Mayberry of California Cooperative Extension, making this delicious vegetable accessible to northern gardeners. We've seen good specimens at Hidden Valley Farm in Alna and at Forest Farm in Harborside. Market gardener Alan LePage in Barre, VT, has gotten as many as eight fruits from a single plant. While that's unusual, most plants will bear more than one, producing in the cooler fall weather that they prefer to summer's full heat. Plants (both seedlings and mature) can tolerate light frosts but not hard ones. PVP. *Caution: May not ripen in northernmost areas.* AGRIOR-certified. ③

A=0.5g, $1.30 **B**=1g, $2.40 **C**=4g, $8.00 **D**=28g, $38.00

CELERY & CELERIAC *Apium graveolens*

0.2 gram packet about 500 seeds, 0.4 gram packet about 1000 seeds, 75,000 seeds per oz. Tender, must be started indoors in March, 10–12 weeks before setting out. Slow growers require rich moist soil to survive. Celery withstands light fall frosts but gets kayoed by serious cold. Virginian Pam Dawling suggests that falling apple blossoms are a good phenological sign that transplanting time for these crops has arrived.

Minimum germination temperature 40˚, optimal range 59–70˚, ideal temperature 68˚ day, 59˚ night, needs fluctuating temperatures, emergence takes 12 days at 59˚ and 7 days at 68˚. Only 40% normal seedlings at 59˚ compared to 97% at 68˚.

3616AF Afina Cutting Celery (60 days) Open-pollinated. Sturdy dark green foliage has rich aroma and taste, regenerates quickly after cutting. Imparts the same flavor to stews and soups as conventional celery. Although its culture is the same, it is much hardier and easier to grow. Both its thin hollow stems and its leaves can be used fresh or dried. Grows up to 30". ④

A=0.2g, $1.00 **B**=0.4g, $1.80 **C**=1g, $3.20 **D**=4g, $5.50
E=28g, $16.00

3621PO Par-Cel Cutting Celery OG (72 days) Open-pollinated. Market gardener Eva Sommaripa (for a full profile of the legendary Eva see # **9875** *Wild Flavors* in our books section) suggested that we carry this curly cutting celery which looks like parsley but tastes more like celery. When we could not find a commercial supplier, she grew the seed for us herself. In several outdoor trials we've found it a fussy germinator, so we recommend an indoor start. Although it withstands heat and drought, Par-Cel is remarkably cold-tolerant, lasting well into late fall, and tremendously vigorous once established. Cut leaves back once the roots are well-established. Older leaves develop a very strong flavor. BSO-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.20 **C**=1g, $4.40
D=4g, $10.00 **E**=28g, $28.00

3624VO Ventura OG/BD (80 days) Open-pollinated. Ventura takes the difficulty out of growing celery. Develops beautiful thick crisp stalks with rich never harsh flavor even in less than ideal conditions. Because it has some tolerance to fusarium, Ventura rarely develops the punky centers that sometimes plague other varieties. Be sure young plants receive adequate moisture, a necessity for steady growth. Irrigate if necessary. Stellar NOP-certified biodynamic seed. ②

A=0.1g, $2.20 **B**=0.2g, $4.00 **C**=0.4g, $7.00
D=2g, $20.00 **E**=10g, $90.00

3630RO Redventure OG (84 days) Open-pollinated. An inspired cross of Giant Red Celery and Ventura made by Frank Morton in the early 1990s, now a stabilized cultivar. This marriage of opposites brings out the best of both partners and hides the flaws. Wanting to offer red celery, we trialed heirloom Giant Red but found it tough, stringy and too strong for modern palates. However, when combined with Ventura, the harshness and textural flaws disappeared into a delicious chewy stem with plenty of interior red color. Not as tender as Ventura, but with an enhanced flavor that will really enliven soups, salads and casseroles. OT-certified. ①

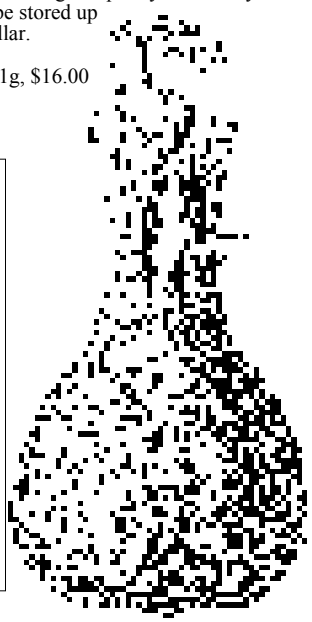
A=0.2g, $1.20 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=4g, $6.50
E=28g, $24.00

3634TO Tango OG (90 days) Open-pollinated. The dance originated in South America but the celery is from Bejo in Holland. Adam Tomash and June Zellers, who year after year grow astounding celery, selected Tango as the star of one trial. Impressed with the variety's compact architecture and absence of punky centers, they grew unbelievably massive dense plants even in close spacing. They say Tango is almost as nice as Ventura without quite as good disease resistance. Once you taste its smooth tender sweet nearly stringless stalks, you're going to want this dance. *Note: Under conditions of fast growth, high temperatures and moisture it may exhibit an harmless condition that mimics a bacterial wilt.* SKAL-certified. ④

A=0.1g, $2.70 **B**=0.2g, $5.20 **C**=0.4g, $10.00 **D**=2g, $33.00
E=10g, $155.00

3645BO Brilliant Celeriac OG (100 days) *A. g.* var. *rapaceum* Open-pollinated. Celeriac, the frog prince of root vegetables, suffers no reduction in yield in rainy years. Despite its ugly exterior, it is coming into its own in the States, where it has recently been embraced by top-notch chefs and gourmets. Even though it is not a celebrated part of Downeast cuisine, Jason Kafka has successfully wholesaled it to Whole Foods and through Crown of Maine Coop. A staple in central and eastern Europe, its nutty parsley-celery flavor improved by light fall frosts, enhances meat, fish and poultry. Great raw for winter slaws and salads, it may be boiled, mashed or braised. Brilliant is a classy early celeriac, high yielding with relatively smooth roots, clean white internal coloration and superb eating quality. An early start indoors is essential for good yields. Can be stored up to six months in moist sand in the root cellar. OT-certified. ①

A=0.2g, $3.30 **B**=0.4g, $6.50 **C**=1g, $16.00
D=4g, $62.00 **E**=12g, $180.00

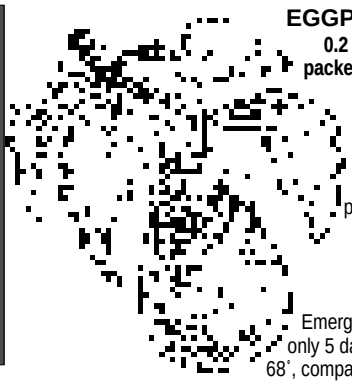


"We love you guys, but trying to order on your website is a nightmare."
—Marleen Cenoff & Anthony Wight, Branford, CT

We can identify two problem areas:

- During times of heavy use, sometimes folks got timed out by the web server. Last season, we advised people to place orders at a low-traffic time (early morning, late evening, weekends) and this helped. We are addressing the congestion by upgrading our server, and plan to have it in place by January. Increased capacity, in theory, will handle the traffic.
- As with the paper forms, each division has its own cart and checkout. You *cannot* put a book or other OGS item into the Seed cart, or search for an apple tree unless you are in the Trees section. You *can* have active shopping carts in several divisions at the same time, but you have to check out and pay for each one separately. Each division has its own discount schedule, shipping charges, and shipping calendar.

EGGPLANT *Solanum melongena*



0.2 gram packet about 48 seeds, 0.4 gram packet about 96 seeds. Growing eggplant is a real challenge in our short season. The selections below are the most reliable producers we've found. We are looking for more, but even our highly skilled trialers often achieve only sparse production of ripe fruits.

Minimum germination temperature is 60˚, optimal range 75–90˚, optimal temperature 85˚. Some varieties require fluctuating day and night temperatures. Emergence is 13 days at 68˚, 8 days at 77˚ and only 5 days at 86˚. Only 21% normal seedlings at 68˚, compared to 60% normal at 86˚.

3666SW Swallow (51 days) F-1 hybrid. Don't believe you can grow eggplant in this cold part of the world? Swallow could make you a believer because it is *early*, producing glossy purple-black tender fruit of the elongated (1¾x7") Asian type without the bitterness often associated with larger eggplants. "Swallow was outstanding last year," reports Margie Parker of Solstice Gardens, Coupeville, WA. ⑤

A=0.2g, $1.90 **B**=0.4g, $3.20 **C**=1g, $7.00
D=4g, $25.00 **E**=28g, $130.00

3673PL Pingtung Long (58 days) F-1 hybrid. Named for a town in Taiwan. Long Chinese eggplant will please cooks who enjoy the ease of working with uniform slices. Plants are vigorous, stress tolerant, and start producing early for a decent overall yield. If Pingtung is harvested before full maturity, its light purple color is especially appealing. As it approaches its full 11", its skin darkens but retains a pleasing sheen. Has an appealing sweetness that will keep you coming back for more. ③

A=0.2g, $1.10 **B**=0.4g, $2.00 **C**=1g, $3.20
D=4g, $4.50 **E**=28g, $18.00

3678AO Applegreen OG (70 days) Open-pollinated. Developed in 1964 for short-season areas by legendary University of New Hampshire plant breeder Elwyn Meader. This rounded 6x4½" light apple-green eggplant is early and productive—a winning combination for eggplant aficionados in the North. Chinese Red (*S. integrifolium)* is in the parentage. Fruits weigh 4–5 oz. Mild white flesh is non-bitter, tender and flavorful. Bon appetit! IA-certified. ②

A=0.2g, $1.70 **B**=0.4g, $3.00 **C**=1g, $6.50
D=4g, $22.00 **E**=28g, $150.00

3681GA Galine (72 days) F-1 hybrid. A classic early bell-shaped Italian-style eggplant that sets fruit and produces early and dependably in the North! Adam Tomash and June Zellers rated it the earliest in their trials and the best-tasting, comparing its flavor to #**3691** Rosa Bianca, their favorite. "Mild with a pudding-like texture when cooked," they report. Plus it had larger fruit, averaging about 1 lb. each, and was less fussy than Rosa. They exhibited a beautiful glossy black 6x3" specimen at the Fair. We now have a good supply of seed and can fill all large orders. ⑤

A=0.2g, $1.50 **B**=0.4g, $2.40 **C**=1g, $3.00
D=4g, $10.00 **E**=28g, $50.00 **K**=112g, $160.00

Diamond (78 days) Open-pollinated. Kent Whealy brought this elongated slightly tapered dark purple eggplant back from the Ukraine in 1993. 2' plants set 2½x7" slender 12 oz. fruits in clusters. Flesh firm has pleasing texture and entirely lacks that bitter eggplant taste. Because of its mild flavor and good cold-climate adaptation, Diamond is growing in popularity. Customers have reported high yields. Richard W. Shannon of Sanbornton, NH, got nearly 100 fruits from six plants. Our trialer in Maine had an average yield of 4 lb. per plant.

3683DM Diamond ②

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=4g, $5.00
E=28g, $25.00

3684DO Diamond OG OT-certified. ①

A=0.2g, $1.50 **B**=0.4g, $2.40 **C**=1g, $4.00 **D**=4g, $6.00
E=28g, $30.00

Pest: Colorado Potato Beetle
Cultural controls: rotation, control solanaceous weeds such as horse nettle, rapid flaming, suction devices, hand-picking if pressure is low, mulch before adults arrive.
Materials: Spinosad (#**8922-4**), Beauveria bassiana (Naturalis #**8921** not allowed for organic certification).
Also see the Moose Tubers section, page 110.

3685BK Black King (79 days) F-1 hybrid. A fine hybrid eggplant from Takii in Japan that looks good for the main crop. A vigorous grower and high yielder suitable for both greenhouse and open-field cultivation. 7" shiny bulging oval fruits outperformed Diamond in Adam Tomash and June Zellers' trial. Their two King plants produced 11 ripe fruit averaging 0.9 lb. Resistant to excess heat. ⑤

A=0.2g, $1.50 **B**=0.4g, $2.50 **C**=1g, $4.00 **D**=4g, $12.00
E=28g, $50.00

3688RO Rosita OG (84 days) Open-pollinated. A truly sublime eggplant, Rosita is early, productive and tasty without a hint of bitterness. These pear-shaped pink-lavender fruits with white shoulders are 6–8" long and 4–6" wide and will stand up in any Solanum beauty contest. Heirloom Rosita, brought to the States from Puerto Rico in 1979, is rapidly gaining favor. Enjoy its sweet delicious tender white flesh. QCS-certified. ②

A=0.2g, $1.50 **B**=0.4g, $2.50 **C**=1g, $4.00 **D**=4g, $15.00
E=28g, $80.00

3691BO Rosa Bianca OG (88 days) Open-pollinated bicolor Italian heirloom. Alan LePage calls it "the best eggplant in the universe," with a creamy consistency and delicate flavor. Gorgeous fruits, white with lavender streaking down the side can command a premium in gourmet markets. Rosa is plump, about 3–4" across and 5" long, narrow at the top and widening with indentations almost like folds in draped fabric. Fruits average 2 lb, max out at 4 lb, making it LePage's highest-yielding eggplant. Rosa needs to be coddled, particularly in the northern half of New England. Seed needs alternating temperatures to break dormancy: warm days (preferably 80s), cooler nights (around 70 °). We recommend raised beds, row covers and plastic or IRT mulch. AGRIOR-certified. ③

A=0.2g, 90¢ **B**=0.4g, $1.60 **C**=1g, $2.60
D=4g, $4.20 **E**=28g, $18.00

OKRA *Abelmoschus esculentus*

2 gram packet contains about 30 seeds. Okra is very tender and requires a lot of heat. Direct seeding is marginal in our climate. We recommend starting indoors in peat pots and transplanting in 4–5 weeks, after all danger of frost has passed. Minimum germination temperature 60˚, optimal range 70–90˚, optimal temperature 80˚. Emergence is 13 days at 77˚ and only 7 days at 86˚, but highest proportion of normal seedlings (92%) is at 77˚, falling off at higher temperatures.

Transplant 1' apart; do not disturb roots. Fleshy pods are best when picked young and tender, no longer than 4". They are rich in vitamin A, protein, calcium and iron and contain mucin, a digestive aid. Linda Paul of Bachamsville, VA, shared a recipe for okra that never makes it to the table: "Dip slices in egg beaten with a little milk, then coat with flour. Fry in hot olive oil, turning when bottoms are brown & crispy. Add a little salt after draining on a paper towel. Has the same effect as popcorn."

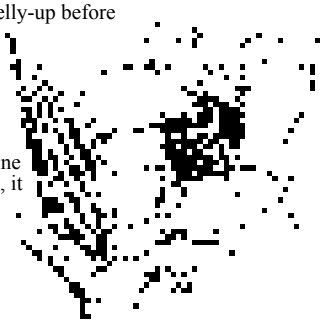
3695JO Cajun Jewel OG (65 days) Open-pollinated. A bayou favorite since the 1950s, Cajun Jewel adapts well to our cooler climate and produces almost as much as hybrid Cajun Delight. Dwarf spineless 3–4' plants yield relatively early 1x7" pods with good flavor. Southern Exposure Seed Exchange, who introduced this Jewel to commerce in 1989, produced our seed. QCS-certified. ②

A=2g, $1.10 **B**=4g, $2.00 **C**=28g, $8.00 **D**=112g, $22.00
E=448g, $82.00

3697GO Red Burgundy OG (75 days) Open-pollinated. A dual-purpose cultivar that can be used as a stunning ornamental as well as a culinary delight. Most productive in the south, Red Burgundy is hardy enough to generate at least a few pods here. Slender pods will grow 6–7" but are best harvested at 4" for optimal texture and flavor. Our trialer Relentless says they "taste as good as any green okra." Later and not as productive here as Cajun Jewel, but an absolute stunner with its green leaves and burgundy ribs, stems and pods. Bred by Leon Robbins at Clemson University. CCOF-certified. ③

A=2g, 90¢ **B**=4g, $1.60 **C**=28g, $3.50 **D**=112g, $12.00

3699BO Beck's Big Buck OG (85 days) When Malcolm and Delphine Beck bought their farm in 1968 in Comal County, TX, they found in the abandoned garden giant okra stalks with the fattest pods they'd ever seen. When they saved and replanted the seed it grew big fluted remarkably tender delicious green pods in abundance on sturdy plants. They called it the snapping okra because it snaps so easily off the plants when it is ready to harvest. They couldn't find anything like it in seed catalogs. At one point they even saved and cleaned 74 lb. of seed for a repacker only to have the company go belly-up before paying them a cent. Undeterred, they've continued giving seeds away the last 35 years at their Garden-Ville store. The original seeds were smuggled from Germany by one of their neighbors. Though not adapted to our climate, Beck's will produce even in Central Maine in an average growing season. Of course, it will do much better further south. QCS-certified. ②



A=2g, $1.20 **B**=4g, $2.00
C=28g, $8.00 **D**=112g, $28.00

PEPPERS *Capsicum annuum*

Capsicum comes from the Greek *kapto* which means 'bite.' **~160 seeds/g.**

Very tender, will not tolerate frost, dislike windy spots, will not set fruit in cold or extremely hot temperatures or in drought conditions. Start indoors in March or April. Set out in June. Black plastic highly recommended. Minimum germination soil temperature 60˚, optimal range 68-95˚, optimal temperature 80˚. Emergence is 13 days at 68˚, only 8 days at 77 or 86˚. 70% normal seedlings at 59˚ increases to 98% at 77˚.

Pick first green peppers when they reach full size to increase total yield significantly. Green peppers, though edible, are not ripe. Peppers ripen to red, yellow, orange, etc.

For all peppers, days to full-color maturity are from transplanting date.

Open-pollinated SWEET PEPPERS

3706NO King of the North OG (70 days) Back in the late '80s when Seed Savers Exchange co-founder Kent Whealy keynoted at the Common Ground Fair we asked him to suggest a pepper that would ripen in the North. His suggestion was King and it has been our most popular open-pollinated bell ever since. A good choice for those who want marketable blocky peppers but can't get Staddon's Select to set fruit. OT-certified. ①
A=0.2g, $1.20 **B**=0.4g, $1.80 **C**=1g, $3.00 **D**=2g , $5.50 **E**=4g, $10.00

Boldog Hungarian Spice Paprika ECO (71 days) No grower; *not available in 2012.*

Purple Beauty (74 days) Produces a good yield of blocky 3x3" fruits which ripen from purple to green to deep red as they mature. Aptly named, the fruit are incredibly striking in the purple stage. They taste like other crisp green bells, but sell much better even at a premium price. Purple peppers reveal green interiors when sliced, and turn green in their entirety when cooked. "Super early and they're huge," says staffer and market grower Holli Cederholm. Plants 18–20".

3722PB Purple Beauty ②
A=0.5g, $1.00 **B**=1g, $1.60 **C**=2g, $2.80 **D**=4g, $4.50

3723PO Purple Beauty OG ID-certified. ①
A=0.5g, $1.10 **B**=1g, $1.80 **C**=2g, $3.00 **D**=4g, $5.00 **E**=28g, $20.00

3728SO Staddon's Select OG (74 days) In the absence of Peacework, open-pollinated Staddon's is worthy of consideration except in the very cold climates where it is poorly adapted. This good large blocky market-type pepper makes early production of good-sized glossy dark green 3–4 lobed peppers on tall bushy plants, even in adverse conditions. Last offered by Fedco in 2007. **BACK!** OEFFA-certified. ①
A=0.5g, $1.20 **B**=1g, $2.20 **C**=2g, $4.00 **D**=4g, $7.00 **E**=28g, $30.00

Jimmy Nardello's (76 days) This thin-walled 8" frying pepper has won many converts. The long curved tapering pointed fruits turn deep red with shiny wrinkled skin when ripe. Pleasing sweet mild flavor, good raw, in stir fries and, especially, fried. According to Nardello family relative Patty Ruprecht of Pownal, ME, "the *only* way to eat them is to string them, dry them, fry them and salt them." Eat them plain or "better still as a sandwich on Italian bread with a slice of provolone." Listed on Slow Food's Ark of Taste. Brought to Connecticut from the village of Ruoti in the Basilicata region of southern Italy in 1887 by Jimmy Nardello's mother.

3730JN Jimmy Nardello's ②
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.20 **D**=2g, $9.00 **E**=4g, $14.00

3731JO Jimmy Nardello's OG MOFGA-certified. ①
A=0.2g, $1.70 **B**=0.4g, $3.00 **C**=1g, $5.50 **D**=2g, $9.50 **E**=4g, $15.00

3735CO Chocolate OG (80 days) Our warehouse crew is indiscriminate and voracious when it comes to chocolate. But our trial evaluators were much more circumspect, rejecting various strains of chocolate peppers as far too unproductive until we found this chocolate. Our seed grower reports every plant has at least a dozen fruits, some 20 or 30, so that sometimes plants fall over and lie on their sides! 6–8" tapered fruits turn from green to brown. The thickly walled flesh (burgundy-red inside and chocolate outside) has the great taste when ripe that we've looked for all these years. MOFGA-certified. ①
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.50 **D**=2g, $10.00 **E**=4g, $18.00

Is "global weirding," to quote Thomas Friedman, putting the heat on hot peppers? In #**9640** *Chasing Chiles: Hot Spots Along the Pepper Trail*, Kurt Michael Friese, Kraig Kraft and Gary Nabhan—a chef, an agroecologist and an ethnobotanist—set off, not in a sieve, but on the road, to discover what climate change has done to one of our signature food crops.

3738CU Cubanelle (80 days) Our customers asked for this semi-sweet frying pepper. 6x2" waxy yellow-green fruits turn red. Not pungent. "Hands down our biggest fruit producer of all pepper varieties for many years now," reports Anne Elder. ③
A=0.5g, 80¢ **B**=1g, $1.20 **C**=2g, $2.20 **D**=4g, $3.50 **E**=28g, $6.00

Amish Pimiento OG (85 days) No grower; *not available in 2012.*

3744TO Tangerine Pimiento OG (85 days) With Sweet and Amish Pimiento both unavailable, Tangerine is our sweet pimiento of choice for 2012. But our crop is short, so if you don't want to lament-o the lack of pimiento, you'd be wise to *order early.* Prolific producers of beautiful orange-sherbet pimientos, round to slightly flattened, 3–4 lobed, thick-walled sweet and juicy. Great for eating fresh or roasting. Plants are modest in height and bushy, yet capable of ripening more than a dozen of these small 2–3" squat fruits in a good year. OEFFA-certified. ①
A=0.2g, $1.40 **B**=0.4g, $2.50 **C**=1g, $4.00

3746FO Feherozon OG (90 days) My first introduction to this extraordinary pepper was in a jar…dried and ground to a wonderfully sweet paprika. I was intrigued. The field reports didn't even consider this aspect, instead extolling Feherozon for incredible productivity: up to two dozen 3x4½" pointed light yellow fruits per plant. One trialer fed her entire neighborhood with these sweet juicy and flavorful peppers. Any not eaten fresh will eventually turn red and can be dried for an absolutely delicious paprika. The beauty of this pepper as it turns is noteworthy. Beginning with the faintest red overtones blending into its yellow background, the red blush grows more pronounced as it matures. ID-certified. ①
A=0.2g, $1.20 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $5.50 **E**=4g, $10.00

Open-pollinated HOT PEPPERS

Chiles have been consumed in Mexico for more than 5,000 years. The Aztecs had at least seven different words for hot peppers and the Incas used peppers as a form of currency. In the U.S. popularity of hot peppers has increased dramatically in recent years. Per capita consumption of chiles now exceeds that of peas, asparagus and cauliflower. 25% of the country's chiles are grown in Hatch, NM, the self-proclaimed Chile Capital of the world, whose annual chile festival each Labor Day weekend attracts thousands of visitors.

Hot pepper eaters enjoy the "constrained risk" of a pleasant thrill which, unlike alcohol, tobacco or coffee addictions, has only a short-term effect and is not health-threatening. A great website if you like your peppers hot is www.usHOTstuff.com.

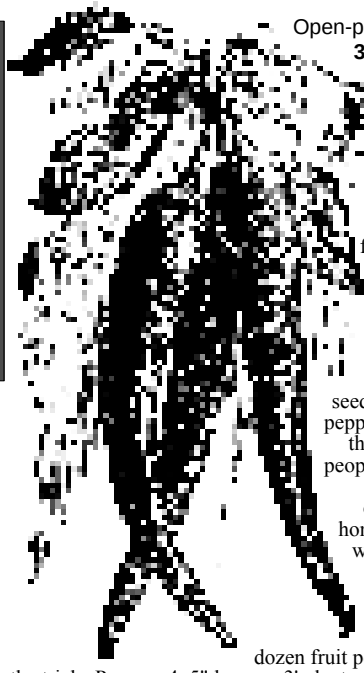
Capsaicin compounds cause most of the heat in peppers. Warm nighttime temperatures stimulate maximum development of capsaicins and increase pungency levels. Pungency is expressed in Scoville units, after Wilbur Scoville, an Englishman who devised the method used for eighty years to measure the heat in peppers. Some Scoville ratings for general categories are: sweet bell, Banana and Pimiento peppers 0, Ancho & Poblano 1–2K, Anaheim 0.5–2.5K, Bulgarian Carrot 2.5K, Jalapeño 2.5–8K, Chipotle 5–8K, Long thick Cayenne 6–8.5K, Hot Wax 5–9K, Serrano 8–22K, Aji & Cayenne 30–50K, Super Chili 40–50K, Thai 50–100K, Orange Habanero/Scotch Bonnet 150–325K, commercially available pepper spray for self-defense 2–3M, police-grade spray 5.3M, capsaicin 15–16M.

If you overdose on hot peppers, milk is almost twice as effective as water in banking the flames, and bread, rice or tortillas are even better. Handle hot peppers with caution; capsaicin is highly alkaloid and can burn skin.

3751PO Hot Portugal OG (64 days) Bears elongated narrow fruits, 5–8" long, 1" in diameter with the classic wrinkled hip at the stem end. Superb pepper flavor comes through its considerable heat nicely. Not as hot as Super Chili, but hotter than Early Jalapeño. Early productive ripener of glossy scarlet fruits borne on tall plants. Most will turn straight from green to red, but 4% off-types will turn from green to yellow to red. Listed in the 1935 Joseph Harris catalog. MOFGA-certified. ①
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.50 **D**=2g, $9.00 **E**=4g, $16.00

3753BO Czech Black OG (65 days) A most beautiful vegetable. Black when immature, the 2 ½" long conical fruits ripen to a lustrous garnet—so striking that seed grower Roberta Bailey kept a bowl on her table just to admire. Mild juicy flesh runs with a cherry red juice when cut. The heat, a tad less than a jalapeño's, is in the ribs and seeds and is "just right for many of us," says one customer. 2 ½–3' bushes bear very early, setting about 20 pointed thick-walled peppers per plant. MOFGA-certified. ①
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.50 **D**=2g, $9.00 **E**=4g, $16.00

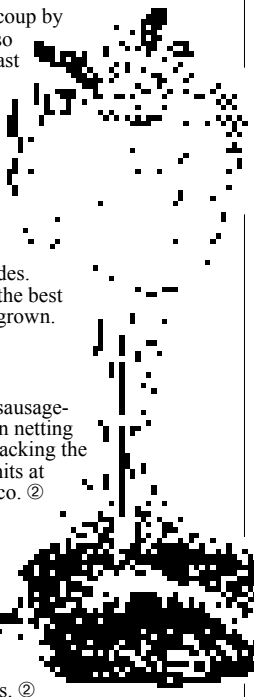
Open-pollinated Hot Peppers continued



3754HH Hungarian Hot Wax (68 days) Numerous customers requested this semi-hot type which sets even in cool weather. Smooth waxy yellow 5½x1½" fruits taper to a point. Originated in Hungary, 1941. 700 to 3,000 Scovilles. Nikos' favorite for chiles rellenos. ②
A=0.5g, 80¢ **B**=1g, $1.20 **C**=2g, $2.20 **D**=4g, $3.50 **E**=28g, $6.00

3755HM Ho Chi Minh ECO (68 days) Longtime Minnesota co-oper Steven Schwen sent us seeds for this beautiful shining cayenne pepper from Southeast Asia. He got it in the 1980s when the first wave of boat people landed in Minnesota and came to his farm looking for chickens and ducks. He named it Ho Chi Minh in honor of the Vietnamese revolutionary who defeated all the colonialists who invaded his country. According to Schwen it has a bite that says "run home to your mama!" We enjoyed its prolific production (up to two dozen fruit per plant), its heat and good flavor in the trials. Peppers 4–5" long on 3' plants grow like large fingers turning from bright yellow to crimson in late August. They are excellent dried. Louie Pulver of Surfing Veggie Farm in VT reports he had a lot of repeat plant sales. ☙2007. ①
A=0.2g, $1.20 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $5.50 **E**=4g, $10.00

3756BC Bulgarian Carrot Chile (68 days) Also known as Shipkas. We first saw this show-stopper at Amy LeBlanc's farm. Colored like a polished fluorescent-orange carrot, the thin-walled 1½–3½" tapered fruits are as hot as they look and make welcome additions to chutneys, marinades and salsas, as well as excellent hot sauces. Also delicious dried and ground. Their fruity undertone nicely complements their heat. Received a very high over-all rating in the OSU trial. Though just 18" tall, these plants produce clusters of peppers close to the main stem. Brought indoors, they produced in Amy's greenhouse till February. Heirloom was smuggled here through the Iron Curtain 25 years ago. ③
A=0.5g, $1.40 **B**=1g, $2.60 **C**=2g, $5.00 **D**=4g, $9.00 **E**=28g, $40.00



3761JV Jaluv An Attitude ECO (75 days) This coup by amateur breeder extraordinaire Relentless (who is also responsible for #**4107** Be My Baby tomato) has at least three kinds of peppers in its pedigree, although it looks like a jalapeño both in shape and size. In the breeder's own words: "If I had to have one chili on a desert island, it used to be a jalapeño. Now maybe not. This new chili is the result of a cross between an open-pollinated jalapeño and (my own) original that was called 45° N Attitude. The object was to have a thicker-skinned 45° with a lot of jalapeño flavor. The 45° N had thin skin, delicious hot fruity flavor and dried and produced well in northern latitudes. My overriding intent in crossing them was to obtain the best combination of both." Earth Passionate Agrarian™–grown. Got attitude? ☙2008. ①
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.50 **D**=2g, $9.00 **E**=4g, $16.00

3764EJ Early Jalapeño (75 days) Hot, hot, 3x1" sausage-shaped blunt fruits mature early. Characteristic brown netting appears as fruit ripens from dark green to dark red. Packing the seed makes us teary-eyed! 4,000 to 6,500 Scoville units at maturity. From Jalapa in the state of Veracruz, Mexico. ②
A=0.5g, 80¢ **B**=1g, $1.20 **C**=2g, $2.20 **D**=4g, $3.50 **E**=28g, $6.00

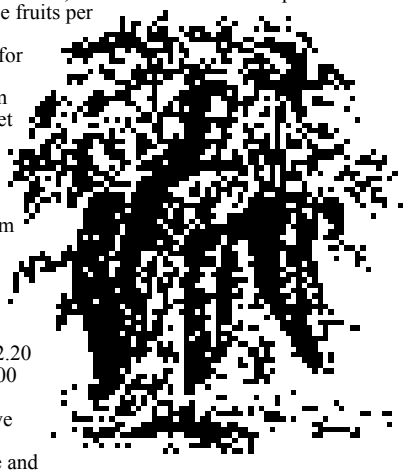
3770CY Long Red Narrow Cayenne (75 days) Often curled and twisted, the wrinkled peppers grow 5–6" long, ½" across, and taper to a point. Dark green color changes to bright red. Prolific ("produce zillions") and hot. The backbone of Hillary Nelson's red chile pastes. Pre-1827 heirloom. Pungent; 3,500 to 5,000 Scovilles. ②
A=0.5g, 80¢ **B**=1g, $1.20 **C**=2g, $2.20 **D**=4g, $3.50 **E**=28g, $6.00

"Tax the rich—put the mural back—end the perpetual wars."
—Richard B Clement, Peaceful Way, Pittston, ME

3773MO Matchbox OG (75 days) Matchbox is a product of many years of dedicated breeding work to create an open-pollinated selection of the hybrid Super Chili. Hungarian Hot Wax and Hot Banana were among the parents. The squat plants bear prolific upright fruit, averaging 2" long, ⅓" across and ripening from pale green to deep scarlet. Like Super Chili, they bear well in cold damp weather, hot dry weather, sandy soils and heavy clay. They have plenty of heat and the characteristic finely cut lightweight leaves of many hot peppers. Can be potted and overwintered. Now fully stable. As one customer put it, "All of my Matchboxes were extremely stable, infinitely much more so than me. Congrats Fedco breeders." Seed grown by Roberta Bailey at Seven Tree Farm. ☙2000. MOFGA-certified. ①
A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.50 **D**=2g, $9.00 **E**=4g, $16.00

3777AN Anaheim (78 days) Also known as California Chile and Chile Verde. Cultivated for canning in a factory near Anaheim around 1900. Anaheim is the pepper typically used for chiles rellenos. 7" long fruits tapering to a point turn from dark-green to red at maturity. Pungent, but not particularly hot. 900 to 2,500 Scovilles. ②
A=0.5g, 80¢ **B**=1g, $1.20 **C**=2g, $2.20 **D**=4g, $3.50 **E**=28g, $6.00

3778BD Beaver Dam (80 days) The only pepper to produce for Emily Cates in the challenging 2009 season, Beaver Dam set several pendulous shiny horn-shaped 6" red-orange fruits per plant, 3" wide at the shoulders, tapering to a blunt point. Early for its size and a heavy producer in normal years. With Beaver Dam you can have it both ways: sweet or with heat. Most of its mild spice is in its seeds and ribs so you can excise those if you wish. Or leave them in to enjoy its nice peppery flavor. Heirloom brought to Beaver Dam, WI, in 1912 by the Joe Hussli family. Emily's favorite for roasting over hot coals in the woodstove. ①



A=0.2g, $1.20 **B**=0.4g, $2.20 **C**=1g, $4.00 **D**=2g, $6.00 **E**=4g, $11.00

Fish (80 days) A most attractive pepper plant with distinctive green and white mottled foliage and striped fruits. The 2" curving pendant fruits look a little like swimming fish. They turn from white with green stripes to orange with brown stripes to red, packing considerable heat and full-bodied flavor that especially enhances shellfish. A mutation of a common serrano pepper that probably originated in the 1870s, by 1900 Fish was extensively grown by the African-American community around Philadelphia and Baltimore. Listed on Slow Food's Ark of Taste. 2' spreading bush plants benefit from staking. *May require a little too long season for the coldest pockets.* Occasional plants will regress to solid green leaves. Rogue out if you are saving seed. Fish crosses readily with other peppers, requiring greater populations and more isolation than most others to remain pure.

3780FS Fish ECO ②
A=0.2g, $1.30 **B**=0.4g, $2.40 **C**=1g, $4.50 **D**=2g, $7.00 **E**=4g, $13.00 **K**=14g, $36.00

3781FO Fish OG (80 days) QCS-certified. ②
A=0.2g, $1.40 **B**=0.4g, $2.50 **C**=1g, $4.80

3783TO Thai Hot OG (82 days) Anne Elder gets 200 of these little "sweeties" per plant. She calls them "cute little compact treasures full of heat." #**3796** Habanero, and possibly # **3794** Hinkelhatz and #**3755** Ho Chi Minh, are our only hotter peppers, as Thai Hot checks in around 80,000 Scoville units. Thai Hot's small conical peppers ripen to bright red and stand erect above the foliage so fetchingly that it's grown "in the trade" as a red and green Christmas potted plant. However, devoted followers of hot cuisine prize the sparks it creates. Early pinching will produce a bushy 8" plant that can be pulled, roots and all, and hung to dry for winter use or grown inside for both ornamental and edible enjoyment. MOFGA-certified. ①
A=0.2g, $1.80 **B**=0.4g, $3.20 **C**=1g, $5.50 **D**=2g, $8.50 **E**=4g, $16.50 **K**=14g, $55.00

Bolivian Rainbow OG (85 days) *Not available in 2012.*

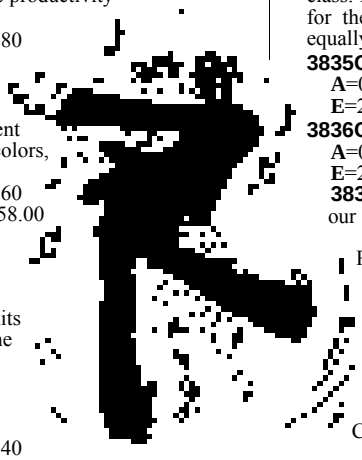
3794HO Hinkelhatz OG (88 days) Not for the chicken-hearted, this rare Pennsylvania Dutch heirloom packs considerable heat. Its name aptly describes the size and shape of its ¾x1½" pendant peppers that taper to a blunt point and are covered with tiny bumps and wrinkles. Ripening from green to red, the tough skins when cut open emit a fruity redolence and reveal a thick juicy flesh. Rarely eaten raw, the peppers were traditionally used for pickling and making pepper vinegar. Nearly as hot as habaneros, they do not require quite as long a season, nor are the plants as picky in cool environments. Plus they are compact enough to grow in a pot to bring inside for the winter. Hinkelhatz was recently boarded by the Slow Foods Ark of Taste. We thank Amy LeBlanc for bringing it to our attention. MOFGA, IA-certified. ①②
A=0.2g, $1.80 **B**=0.4g, $3.20 **C**=1g, $6.00 **D**=2g, $10.00 **E**=4g, $18.00

3796HB Habanero (90 days) *C. frutescens* The name means 'from Havana,' although they really are from other parts of Cuba and the Yucatan. A Scotch Bonnet-type, Habanero is one of the most fiery peppers in cultivation, registering a blistering 200,000–325,000 Scoville units, depending on how hot the growing season, from 30-80 times as hot as an Early Jalapeño. Each 1 1/2' plant will set 10–20 pendulous fruits which turn from dark green to tangerine as they mature. Fruits are somewhat wrinkled from stem to tip, with a distinct flavor you will always recognize once you've tasted them. A key ingredient in West Indian jerk sauce. We recommend greenhouse culture for the northern third of our sales area where consistent nighttime temperatures below 70° make productivity outdoors iffy. ②

A=0.5g, $1.00 **B**=1g, $1.80 **C**=2g, $2.80
D=4g, $4.50 **E**=28g, $22.00

3797SH Some Like it Hot Mix (64-90 days) Love hot peppers but lack the space to try separate packets of each? Our blend of 5–7 different kinds all in one packet is just for you. We'll mix colors, shapes and flavors.

A=0.2g, $1.60 **B**=0.4g, $3.00 **C**=1g, $5.60
D=2g, $10.50 **E**=4g, $19.00 **K**=14g, $58.00



Hybrid SWEET PEPPERS

3810AC New Ace (60 days) A cinch to grow in the North. Resists blossom drop even in adverse weather so that almost every flower produces. Fruits thin-walled, not blocky, turn red early, good for the home garden. New Ace is an improvement on the old strain, producing fewer misshapen pointy peppers, but still not a majority of classic blocky 4-lobed commercial peppers. ⑤

A=0.2g, $1.60 **B**=0.4g, $2.80 **C**=1g, $5.40
D=2g, $10.00 **E**=4g, $18.00 **K**=14g, $56.00

3825BS Sweet Banana Superette (65 days) F-1 hybrid. No, this is not a chain of supermarkets owned by the infamous United Fruit Corporation, instead it is Nikos' favorite new banana pepper. Nor is this a chiquita pepper, being quite long at 5x8", early, sweet, continuously setting and productive. Roughly the shape and color of a banana, but slightly curved and shinier yellow. They might even be as sweet as bananas at perfect ripeness, great for eating out of hand or pickling. Nikos liked them so much that she secured the seed last spring instead of waiting and taking her chances. This variety may display some genetic variability. Now all we need is to come up with as good a marketing scheme as UFC did in the '40s with its famous banana song because you *can* store these in the refrigerator! ② **NEW!**

A=0.1g, $1.70 **B**=0.2g, $3.20 **C**=0.4g, $5.60 **D**=1g, $12.00
E=2g, $20.00 **K**=8g, $56.00

3828LB Lady Bell (68 days) An early elongated bell (a bit reminiscent of Vidi) that looked good in our trials as a replacement for North Star. 3- to 4-lobed fruits ripen from rich green to attractive bright red. A good producer of 3x5" bells, juicy and sweet with a hint of spiciness. Even in cool conditions, each plant sets 3–8 fruits. Developed by Harris. ⑤

A=0.1g, $1.70 **B**=0.2g, $3.00 **C**=0.4g, $5.50 **D**=1g, $12.00
E=2g, $20.00 **K**=8g, $55.00

Our Mailing List

We never sell our mailing list.

If we are sending you too many catalogs, let us know so we can save both trees and money.

We never give out names of people who've requested our catalog but have not yet ordered from us. Occasionally we receive requests from individuals seeking groups with whom to order. If you don't want us to give out your name, please let us know.

Carmen (70 days) Bizet's Carmen opened in 1875 to much controversy and the scathing denunciation of most critics, but is now the world's 4th most-performed opera. Johnny's Carmen debuted in 2006 to much critical acclaim, including a coveted All-America Award. We wouldn't be shocked if the pepper were still grown as widely in 131 years as the opera is performed now. A classic Italian Corno di Toro type, Carmen features unusually sweet horn-shaped tapered pointed 2 1/2x6" fruits avg. 5 oz. Great for salads and roasting, especially as they ripen from green to deep carmine. Good sweet flavor in 2006 OSU observations. Upright medium-sized plants with excellent protective canopy. Widely adapted and early maturing in its class. Bizet's Carmen was a beautiful gypsy with a fiery temper responsible for the downfall of many men. Rob and Janika's Carmen could prove equally tempting, though with much more salutary results.

3835CM Carmen ③

A=0.1g, $1.90 **B**=0.2g, $3.60 **C**=0.4g, $6.50 **D**=1g, $15.00
E=2g, $28.00

3836CO Carmen OG MOFGA-certified ③

A=0.1g, $2.00 **B**=0.2g, $3.80 **C**=0.4g, $7.00 **D**=1g, $16.00
E=2g, $30.00 **K**=8g, $100.00

3837RV Revolution (72 days) "Revolution peppers have revolutionized our pepper sales. The best red bell pepper—kicks Fat 'n Sassy's assy," declared Lucy Goodman of Boulder Belt Eco-Farm in Eaton, OH. Revolution bests Sassy in earliness and substance. It turned red in early October for Donna Dyrek, several days ahead of its rival. Juicy and delicious, it boasts the stoutest square walls imaginable, squarer than the Boy Scout motto, and fatter than the proverbial Fat Lady. Superb yields of "nice hefty thick-walled fruits," says Jason Kafka, some in excess of l lb. Elaine Carlson relates, "I finally had success growing good sweet peppers 12–14 oz. each thanks to Kafka's recommendation. No more thin-walled peppers for me." Resists BLS, tolerant to CMV. ⑤

A=0.1g, $2.20 **B**=0.2g, $4.20 **C**=0.4g, $8.00 **D**=1g, $18.00
E=2g, $34.00 **K**=8g, $120.00

Valencia (72 days) Discontinued by the supplier; *no longer available.*

3842FB Flavorburst (75 days) Citrus flavor comes to the world of sweet peppers! A Burpee taste-test winner, the 4-6" blocky bells begin the color of Granny Smith apples and ripen to a lovely shade of goldenrod. Thick-walled, crisp and juicy, the expected peppery bite overlaid with a zesty surge of lemon. Great appetizers, salad enhancers or stuffers. ④

A=0.1g, $2.10 **B**=0.2g, $4.00 **C**=0.4g, $7.50 **D**=1g, $17.00
E=2g, $32.00 **K**=8g, $110.00

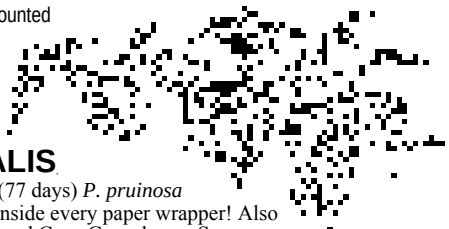
3899SP Potassium Nitrate (KNO_3) Also known as saltpeter, used to soften the coat of many seeds in order to expedite germination. Recommended for brassicas, eggplant, peppers, tomatoes. basil, endive, radicchio, and most flower seed. Comes in fine granular form. Dilute 1/2 tsp in 1 quart water. Use as a pre-soak for seed or to water seedling flats. 10 gram packet contains 2 tsp. *Note: Not approved for certified organic use.* ③ **NEW!**

A=10g, $1.20

Hybrid HOT PEPPERS

See #**6432** Chilipeno in discounted specials.

Krimzon Spice (86 days) Supplier has discontinued production; *no longer available.*



PHYSALIS

4008HC Husk Cherry (77 days) *P. pruinosa* Open-pollinated. A treat inside every paper wrapper! Also known as Ground Cherry and Cape Gooseberry. Same genus as Chinese Lantern and tomatillo, bearing fruits that ripen inside their protective husks. As clusters of berries sweeten, they turn from green to golden yellow, drop off the decorative branching plants, and reach perfection as their husks thin to a near-gossamer papery consistency. The berries have an indescribable nutty flavor that is great for raw snacks. *Don't eat them green—they can be a powerful emetic.* Need filtered light and temperatures at least 75 °, preferably closer to 90 °, to germinate. Cover the seeds with just a light sprinkling of soil and place the flats in the hottest part of the greenhouse, transplanting after last spring frost. Husk cherries will tolerate a touch of frost but give up when temperatures dip below 30 °. In a good year, about half will ripen in time. Will readily self sow, although volunteers never mature as quickly as those started indoors. Oops! One lot of seed last year grew tomatillos instead. If you got those, send a note with your order for a free replacement packet or a refund. ③

A=0.5g, $1.00 **B**=1g, $1.70 **C**=2g, $2.80 **D**=4g, $4.50
E=28g, $20.00

4015VO Verde Puebla Tomatillo OG (77 days) *P. ixocarpa* Open-pollinated. To make salsa verde, harvest golf-ball-sized green fruits when their papery husk splits. Or allow them to turn slightly yellow for a tangy nutty raw snack. They will split before becoming fully ripe. Verde stood out as having the sweetest flesh in our trials. Plants up to 3' put out a huge crop of 1 1/4-2" green balls. Ready for salsa in mid-August. No new crop. We have only 67 grams of seed on hand with 91% germination. Limit 1 A size packet per customer. *Order early!* OT-certified. ①

A=0.2g, $1.40

TOMATOES *Lycopersicon esculentum*

9,000 seeds per oz, 0.2 gram pkt ~60 seeds, 0.5 gram pkt ~150 seeds.

Tender, cannot tolerate frost. Must be started indoors Feb-April. Minimum germination soil temperature 50˚, optimal range 60-85˚, ideal temperature 77˚. Emergence takes 43 days at 50˚, 14 days at 59˚, 8 days at 68˚ and 6 days at 77˚ and 86˚. 98% normal seedlings at 59˚ but only 83% at 86˚.

Avoid using fresh manure as it causes lush foliage with few ripe fruits. Instead use generous amounts of well-rotted cow or horse manure, or compost to boost plant vigor, and crushed eggshells at the bottom of each hole for calcium. Heavy phosphorus needs. Respond well to foliar sprays.

Determinate (**Det**) bush varieties may be staked, should not be pruned. **Indeterminate** (**Ind**) climbing varieties are customarily staked and pruned. Caging without pruning delays ripening, reduces fruit size but increases production, prevents sunburn and reduces fruit cracking and rotting. Staking and pruning produces earlier larger fruits. One reason not to stake or prune (besides sheer laziness!) is that foliage will give fruits some protection against light September frosts. Tomato experts Carolyn Male and Kokopelli's Dominique Guillet both oppose pruning, arguing the more abundant the foliage the more the photosynthesis.

Large-fruited varieties with low fruit set and high sugar content are most likely to crack. To reduce cracking avoid heavy watering and large fluctuations in day/night temperatures and maintain adequate calcium in your soil.

Troubled by green or yellow shoulders? Green shoulders occur when fruit temperatures remain too high for a prolonged period or when the fruit receives too much direct sun exposure. To reduce incidence: prune properly or not at all and maintain good foliage cover. Ohio State research shows that increasing soil organic matter to over 3.5% while keeping pH at 6.4 or lower also helps.

More than 100 different chemical compounds account for tomato taste. Lycopene is a red carotenoid pigment found in mature tomatoes raw or cooked. Reddest, ripest tomatoes have the most lycopene. A Harvard study demonstrated that high lycopene intake sharply reduced risk of prostate cancer in men and breast cancer in women.

Americans consume 18 lb of fresh tomatoes and 72 lb of processed tomatoes per capita, not counting those they grow at home.

For all tomatoes, days to maturity are from date of transplanting.

Organically and sustainably grown seed was rinsed with a sodium hypochlorite solution to reduce risk of seed-borne disease. This treatment poses no health risks.

Open-pollinated TOMATOES

4018LO Glacier OG (56 days) Det. Glacier ripens around the same time as the sub-arctics with about the same size (1–2"), and almost no cosmetic defects except yellow shoulders, but there the comparisons end. Glacier's rich tomato flavor relegates the insipid sub-arctics to the compost pile. It is also superior to the highly touted Siberia tomato, to Stupice, to Early Temptation to Bloody Butcher and, in fact, to every other tomato in the same class that we've tried. Originally from Sweden, 1985. Potato-leaf foliage. WA, MOFGA-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4025SO Oregon Spring OG (58 days) Det. Recommended as a "hedge" in northern climates for cold summers like 1992, 1996, 2000, 2004, 2008. (2009 broke the pattern in these dates.) When most other varieties fail to ripen in time, Oregon Spring matures good-sized fruit in August, actually performing best during cool summers. Develops more cosmetic defects in the heat and humidity. Bears succulent almost seedless fruits, up to 4" but somewhat variable. Tastes unusually good for such an early variety. Bred and developed from Russian parents by Dr. James R. Baggett of Oregon State University, and released in 1984. Not suitable for market growers. Resistant to V. ICS, OT-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4032GO Ida Gold OG (59 days) Det. Often these delightful orange 2-bite low-acid fruits are the first tomatoes to ripen for us. They are early and prolific even in bad tomato years. Developed specially for the North by the University of Idaho. An indifferent performer in so-so soil, but a bountiful yielder when fed compost and rotted manure. MT-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

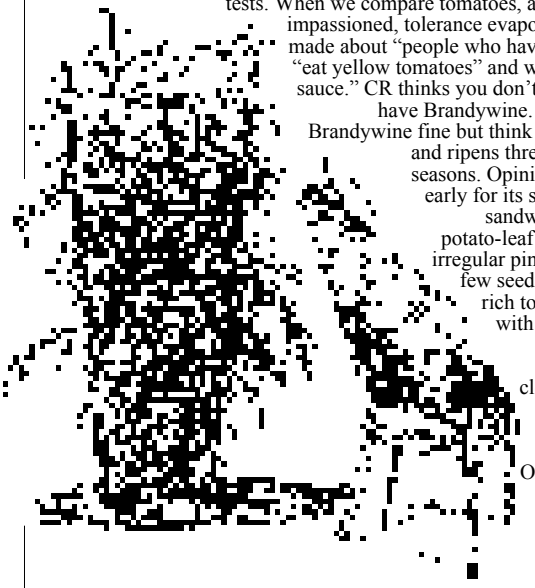
4038CO Cosmonaut Volkov OG (65 days) Ind. A superb home garden variety with good commercial possibilities. Always good and occasionally sublime (the best two tomatoes I've ever eaten were Cosmonauts from different gardens in different years), Cosmonaut delivers the true tomato taste. And it is early, usually ripening quantities of deep red slightly flattened 8–12 oz. globes at the beginning of August when tomato craving is at its peak. Even in cold summers, it will produce dependably by mid-August. What makes Cosmonaut so special is its juice: sweet, rich and full-bodied. Volkov was the Russian explorer who fell through space. From Dnepropetrovsk in the Ukraine, brought to America by the Seed Savers Exchange. MOFGA-certified. ①

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00 **E**=10g, $22.00

4045PO Garden Peach OG (71 days) Ind. For well over a century savvy gardeners have brought Peach's little fruits indoors before frost to keep for several weeks. Doreen Mundie says these are also wonderful dried. 2 oz. yellow fruits blush pink when ripe and have thin fuzzy skins somewhat like peaches. Relatively early, prolific, soft-skinned, juicy and very sweet. Light fruity taste is not what you'd expect in a tomato. Burpee in 1893 called it "delicate, melting in the mouth like a grape." Amy Goldman places its 1890 origins with plant breeder Elbert S. Carman, owner and editor of *The Rural New-Yorker.* It was introduced as a novelty in Hallock & Son's (of Queens) 1890 catalog. Stellar NOP, OT-certified. ①④

A=0.2g, $1.50 **B**=0.4g, $2.50 **C**=1g, $4.00 **D**=2g, $6.50 **E**=10g, $25.00

4049RO Pruden's Purple OG (72 days) Ind. We usually cooperate well at Fedco and tolerate each others' peculiarities *except* during tomato taste tests. When we compare tomatoes, about which we are all impassioned, tolerance evaporates and remarks are made about "people who have no taste buds," who "eat yellow tomatoes" and who "put sugar in their sauce." CR thinks you don't need Pruden's if you have Brandywine. Susan and David like Brandywine fine but think Pruden's tastes better and ripens three weeks earlier in hot seasons. Opinions aside, Pruden's is early for its size and makes a great sandwich tomato. Vigorous potato-leaf vines yield spreading irregular pink 1 lb. fruit with very few seeds, a silken texture and rich tomato taste, nicely tart with a balanced undertone of sweetness that is neither insipid nor cloying. Brett Grohsgal praises its flavor, productivity and disease resistance. OT-certified. ①



A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00 **E**=10g, $22.00

4053PO Black Prince OG (75 days) Ind. Welcomed by our customers after a 13-year absence from our catalog, the Prince of black tomatoes quintupled its sales. In 1997 when we were among the first to offer this émigré from Irkutsk, Siberia, we were way ahead of our time. Now the market has caught up to us. These iridescent 5–7 oz. garnet-colored globe-shaped fruits are among the most uniformly handsome in the tomato kingdom. They have earned a reputation for outstanding flavor similar to that of Black Krim, but without Krim's fragility and tendency to crack. An outstanding home-garden tomato with strong commercial potential. MOFGA-certified. ①

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00 **E**=10g, $22.00

4055TO Rutgers OG (75 days) Ind. Two varieties are called Rutgers. We sell the original strain of this famous New Jersey tomato, developed by Campbell's Soup Co. in 1928 as a cross between Marglobe and JTD. When Rutgers University "refined" the variety in 1943, they took out some of the vininess but also some of the flavor. Our taste tests confirm that the original indeterminate strain is better. Long considered an outstanding slicing, cooking and canning tomato, the medium-sized 4-6 oz. mostly uniform and unblemished deep oblate fruits with rich red interior and pleasing texture have that great old-time flavor, delicious and juicy. Resistant to F1, V1, ASC and GLS. OT-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4056GO Green Zebra OG (77 days) Ind. A most unusual beast in the tomato menagerie, this zebra starts out green with darker green stripes, softening and blushing yellow and apricot when it ripens. It might have remained a mere curiosity, but for its delicious sweet rich flavor. 4–5 oz. small-medium fruits are emerald green inside. Perfect exteriors hold up under adverse conditions and don't crack. Now commonly found in upscale markets. Sometimes incorrectly shows up on lists of heirloom tomatoes, but was developed by Tom Wagner of Tater Mater Seeds in 1985 from four heirlooms. Kent Whealy ranks it in his top ten tomatoes. Susceptible to SEPT. OT-certified. ①④

A=0.2g, $1.30 **B**=0.4g, $2.20
C=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

Cherokee Purple OG (77 days) Ind. but with relatively short vines. No list of the best-tasting heirloom tomatoes would be complete without Cherokee Purple, an unusual variety from Tennesee, said to have originated with the Cherokee Indians. Fruits are globes to slightly oblate, averaging 10–13 oz, with dusky brownish-purple skin, dark green shoulders and brick-red flesh. Their real attraction is their rich taste, which has been described as "sweet rich juicy winey," "delicious sweet," and "rich Brandywine flavor" by aficionadoes maintaining it in the Seed Savers Exchange. Ranks in my top five for flavor. Expect some concentric cracking. Amy LeBlanc of Tomato Lovers Paradise suggests the vines should not be pruned because the delicate fruits sunburn easily.

4058CP Cherokee Purple ①

A=0.2g, $1.10 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.00
E=10g, $20.00

4059CO Cherokee Purple OG Stellar NOP, OT-certified. ①④

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4060BO Paul Robeson OG (78 days) Ind. This Russian heirloom was named in honor of Paul Robeson (1898-1976) who befriended the Soviet Union. Athlete (15 varsity letters at Rutgers!), actor (played Othello in the longest-running Shakespearean production in Broadway history!), singer (world famous for his vibrant baritone renditions of Negro spirituals), orator, cultural scholar and linguist (fluent in at least 15 languages!), Robeson was an outspoken crusader for racial equality and social justice. Revered by the left, reviled by the right, he was blacklisted during the McCarthy Era and beyond, harassed by the FBI, his passport revoked for eight years, his career stifled. He died broken and almost forgotten, his life a testament to lost opportunities in twentieth-century American history. His namesake tomato has developed almost a cult following among seed savers, 13 of whom are listed in the Yearbook. The maroon-brick 6–12 oz. oblate often bi-lobed fruits with dark green shoulders come closest in flavor to Black Krim, but can claim their own distinctive sweet smoky taste. A sandwich tomato with a tang, an extraordinary tomato for an extraordinary man. OT-certified. ①

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00

4061KO Black Krim OG (80 days) Ind. Maine market grower Scott Howell says Black Krim outproduced Pruden's Purple in his greenhouse and warns that most people wait too long to harvest their heirloom tomatoes. Krims should be harvested when half green and still firm. They are dead ripe and perfectly delicious at that stage. If you wait till they are fully purple, you will not be able to get them from garden to table intact (to say nothing of market) and they will disintegrate like a hunk of road-kill. Krims are strikingly iridescent purple on the outside, usually with dark green-black shoulders and noticeable catfacing. Interiors are part black, too, with an unusual juicy yet meaty taste and texture, described as having "…a smoky flavor like a good single malt scotch." Fruits average 12–18 oz. Heirloom Krim hails from Krymsk on the Black Sea in Russia. Stellar, OT-certified. ①④

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4065JO Jubilee OG (80 days) Ind. Also known as Golden Jubilee. Amy Goldman describes its flavor as "sprightly" and says it was a favorite of Ben Quisenberry of Big Tomato Gardens in Syracuse, OH, who offered it under the name Golden Sunray. Nikos discovered Jubilee at a Waldo County Extension taste test at Unity College. The best medium-sized open-pollinated orange tomato, Jubilee ripens smooth-textured sweet mild meaty 8 oz. globes. Pruning will produce larger fruits. Nikos brought me back one from the tasting and it was superb, almost on a par with Goldie both for texture and flavor. Jubilee is smaller than Goldie and less prone to blemish. A cross between Tangerine and Rutgers, it won an AAS for Burpee in 1943. Resistant to ASC. CCOF-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

"Part history lesson, part political, always colorful (without the gloss). Your catalog makes a cold winter's day unseasonably warm with possibility."
—Richard Pederson, Southside Community Land Trust, Providence, RI

4067RO Rose de Berne OG (80 days) Ind. This French émigré could be considered the Brandywine of continental Europe. Like Brandywine, has many strains, and is widely considered in France, Germany and Switzerland to be the best-flavored tomato. Only medium-sized yet delivers the robust flavor of the bigger types. It bested some formidable competition in our trials—including June Pink, Gulf State Market and the celebrated Eva Purple Ball with a rich sweetness the others couldn't match. I found myself enjoying one juicy 5 oz. translucent smooth pink fruit after another. No slouch in the appearance department either, the unblemished globes are perfectly round, the soft skins not excessively fragile and the color and size very attractive. Louie Pulver reports these survived the 2009 late blight through repeated sprayings of copper and milk and #**8850** Serenade. OEFFA, CO-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20
D=2g, $5.50 **E**=10g, $20.00

4069GO German Johnson OG (80 days) Ind. An old heirloom probably from Virginia or North Carolina. This large regular-leaf plant, one of the parents of Mortgage Lifter, is known for its copious yields of pink meaty fruits often exceeding 1 lb., mild with more than a touch of sweetness. OT-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00
C=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4071SO Soldacki OG (80 days) Ind. You won't find a better sandwich tomato than Soldacki, a heavy producer of meaty tasty 14 oz. pink globes with a good mix of sweetness, tartness and real tomato flavor. Tall potato-leaf vines. Originally from Krakow, Poland, brought to Cleveland, OH, around 1900, then to Albany, NY. Prone to cracking in wet seasons. Maine-grown seed. MOFGA-certified. ①

A=0.2g, $1.30 **B**=0.4g, $2.20
C=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

PREVENTING LATE BLIGHT:

Some parts of our sales area suffered from late blight again this year. Even if you didn't, be mindful: in conditions of prolonged cool rain such as we had in 2009 and in late summer 2011, this disease can spread 30 miles per day.

- Destroy—do not compost—any infected plants, fruits or parts. If you compost any diseased material, do not use that compost the next year.
- Late blight on tomatoes is not seed-borne. Saved tomato seed is okay if you ferment it properly.
- Grow your own tomato plants or buy locally grown seedlings. Know your farmer!
- Do not use saved potatoes as seed stock. Purchase only new certified-disease-free seed potatoes. More potatoes info on p. 105.
- For still more information, see our 2010 catalog or our website.

Early blight shows up as drying and dying leaves *at the bottom of the plant.* EB can be managed culturally, should not result in significant loss of crop.

Late blight usually starts at the top of the plant or on the *windward side*. As the earliest infection arrives on warm southerly winds, monitor the south and southeast sides of the garden carefully. Later in the season the wind can bring it from any direction. Early in the season, late blight infection shows as roundish lesions on leaves that uniquely will *cross the center vein of the leaf.* Later, blotches appear on stems. Still later, hard crusty lesions form on fruits.

Septoria Leaf Spot can appear almost overnight. It is characterized by yellowing and small circular spots on older leaves. It can eventually spread to the entire plant in conditions of high humidity and temperatures. It can be spread by wind or carried on clothing and tools. Septoria can live over the winter on live tissue, so don't compost affected plants.

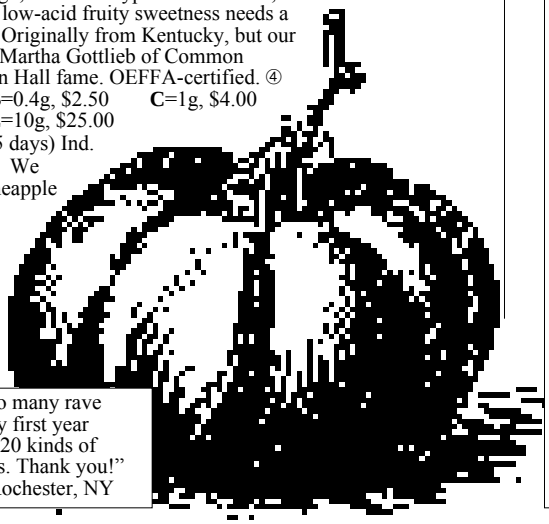
Consult **http://vegetablemdonline.ppath.cornell.edu/** for excellent photos and information. Use services such as the MOFGA Pest Reports to know if and when blight appears south of you.

4075BO Pink Brandywine OG (82 days) Ind. with potato-leaf foliage. Hardly a year passes without advocates claiming another pretender "is better than Brandywine." I remain unconvinced. Much inaccurate information circulated (including, alas, some by our catalog) about the history of this famous tomato that put heirlooms on the map and thick-skinned hybrids on the run. Pink Brandywine was introduced by the illustrious Ben Quisenberry around 1979, and was his favorite. Amy Goldman, in *The Heirloom Tomato*, recounts searching out Doris Sudduth Hill, whose family kept this tomato for over 100 years and who gave Quisenberry his seed. Brandywine can be fussy to grow, has problems with catfacing, early blight disease and sometimes late maturity, but plenty of commercial growers have had success, even in northern New England. Meaty with just the perfect hint of tartness, the oblate beefsteak fruits average right around a pound, ripening unevenly throughout the season, often preferring the coolness of early fall to August's peak heat. ICS, Stellar NOP-certified. ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4076YO Yellow Brandywine OG (82 days) Ind. Growing Yellow Brandywine can be maddening. When she's good, she's very very good, but when she's bad she's awful. All strains (and there are several) develop irregularly-shaped fruits in Maine's extreme weather fluctuations. Compost the weird-looking fruits; enjoy the good ones! There is a close correlation here between looks and eating quality; the good ones are remarkably smooth, with a creamy texture and rich complex tangy flavor. Large slightly ribbed 1 lb. fruits with an identifiable ring scar at the blossom end. Not the highest yielding. Potato-leaf foliage. In the running for best golden tomato, but by no means a shoo-in. MOFGA, QCS-certified. ①②
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

4077NO Pineapple OG (85 days) Ind. The striped tomatoes are among my favorites. They have great names like Hillbilly, Mr. Stripey-Tigerella, Georgia Streak and Pineapple, silky smooth textures and complex, fruity tastes. They often grow huge fruits in excess of 1 lb. that get a little funky cosmetically. Pineapple, Amy LeBlanc's favorite salad tomato, is certainly characteristic—and may be the best of the genre. Cut in half, it looks like the interior of a pineapple except with yellow and red marbling. It doesn't taste like a pineapple, though, nor like a typical red tomato, either. Its unique mild low-acid fruity sweetness needs a fruit name all its own. Originally from Kentucky, but our seed stock came from Martha Gottlieb of Common Ground Fair Exhibition Hall fame. OEFFA-certified. ④
A=0.2g, $1.50 **B**=0.4g, $2.50 **C**=1g, $4.00
D=2g, $6.50 **E**=10g, $25.00

Old German OG (85 days) Ind. *Not available in 2012.* We recommend #**4077** Pineapple or #**4097** Ruby Gold.



"Now I know why so many rave about Fedco. For my first year farming, I can grow 20 kinds of tomatoes for 25 bucks. Thank you!"
—Eric Newman, Rochester, NY

4080AO Aunt Ruby's German Green OG (85 days) Ind. "The biggest surprise I've ever experienced in tomatoes," said the late Chuck Wyatt, vintage tomato collector. Until you try it, you won't believe a green tomato could be this good. I rate it second only to Brandywine for flavor and it is on just about everyone's top ten list. Oblate 12–16 oz. fruits blush lightly yellow and develop an amber-pink tinge on the blossom end when ripe. Watch closely and don't allow them to get too soft before picking. The green flesh of this beefsteak is faintly marbled with pink. Flavor sweet and tart, rich and spicy. The central large tomatoes are the best. Flavor deteriorates when cold weather sets in. Created a sensation at our staff taste-test in September 1996, where it was rated "good" or "excellent" by all who tried it. Aunt Ruby's is not just the best green eating tomato, it also makes a delicious basis for salsa verde. Originally from Ruby Arnold's German immigrant grandfather, introduced in the 1993 Seed Savers Exchange Yearbook by Bill Minkey of Darien, WI. Recently nominated to Slow Food's Ark of Taste. OT-certified. ①②
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60
D=2g, $6.00 **E**=10g, $22.00

Mark Twain (85 days) Ind. No grower; *not available this year.*

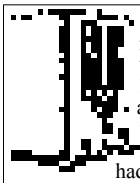
4084HO Schimmeig Striped Hollow OG (85 days) Ind. Though sales have never been robust, we refuse to drop this beautiful mostly hollow stuffing tomato, a spectacular gem in the fall garden. Sturdy plants filled with clusters of 2 1/2–5 oz. red fruits delicately painted with thin stripes of gold. Perfectly shaped like small tri-lobed bell peppers, Schimmeigs stand up straight, hold their shape and melt in your mouth. MOFGA-certified. ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50

4087TO Tiffen Mennonite OG (86 days) Ind. Tiffen has many similarities to the more famous Brandywine—potato-leaf foliage, pink skin, and rich, rich old-fashioned tomato taste that has twice drawn raves at staff tastings. The large rough oblate beefsteak fruits (avg. 15 oz.) are a tad bigger and later than Brandywine. For a superb sandwich tomato or a fresh garden snack, heirloom Tiffen is hard to top! OT-certified. ②
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

Lillian's Yellow Heirloom ECO (88 days) Ind. No seed grower. We'll miss Lillian's. *Not available in 2012.*

4093GO Goldie OG (90 days) Ind. Considered synonymous with Dixie Golden Giant. Though reputed to be over 150 years old, Goldie was introduced commercially in 1977 by Gleckler's Seedsmen. I rate it as the best of all orange tomatoes, impressive for delivering its rich flavor with an extraordinary velvety texture. Deep orange beefsteak fruits average 16–20 oz. Erica Myers-Russo from CT advises, "Don't harvest it until it has a distinct rosy blush" (on the bottom). Very productive. Will catface under cold or excessively wet conditions. Several people who grew our Heirloom Mix reported that Goldie was their favorite. MOFGA-certified. ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00
E=10g, $22.00

4097RO Ruby Gold OG (90 days) Ind. As aesthetically appealing as it is delicious, Ruby boasts prolific beautiful huge red-streaked yellow fruits with marbled interior flesh, meaty with superb mild sweet flavor, smooth melting texture and not a bit of acidity. Introduced by John Lewis Childs of Floral Park, NY, in 1921. Re-discovered by tomato aficionado Ben Quisenberry in Bob's Market in Mason, WV, in 1967, and re-introduced to commerce some years later. Quisenberry offered it under three different names, first Early Sunrise, later Gold Medal and finally Ruby Gold. Tomato cognoscenti rate it as one of the best. Fruits, slightly flattened with red spot on the blossom end, seldom cosmetically perfect, prone to radial cracking. MOFGA-certified. ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50
E=10g, $20.00

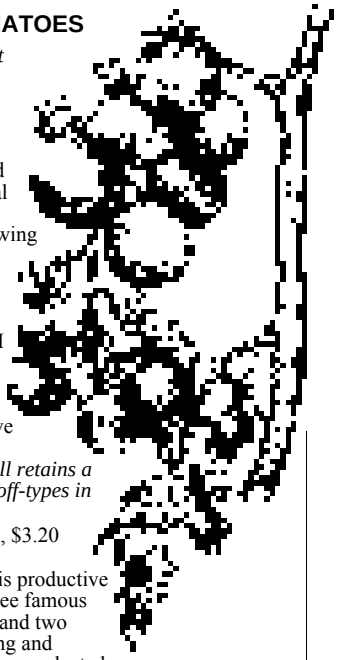


…At the same time we have recognized the necessity of reform and reconstruction --reform because much of our trouble today and in the past few years has been due to a lack of understanding of the elementary principles of justice and fairness by those in whom leadership in business and finance was placed -- reconstruction because new conditions in our economic life as well as old but neglected conditions had to be corrected.…

…Have you as an individual paid too high a price for these gains? Plausible self-seekers and theoretical die-hards will tell you of the loss of individual liberty. Answer this question also out of the facts of your own life. Have you lost any of your rights or liberty or constitutional freedom of action and choice? Turn to the Bill of Rights of the Constitution, which I have solemnly sworn to maintain and under which your freedom rests secure. Read each provision of that Bill of Rights and ask yourself whether you personally have suffered the impairment of a single jot of these great assurances. I have no question in my mind as to what your answer will be.…

…it is not the overwhelming majority of the farmers or manufacturers or workers who deny the substantial gains of the past year. The most vociferous of the doubting Thomases may be divided roughly into two groups: First, those who seek special political privilege and, second, those who seek special financial privilege.… Fireside Chat 6/28/34

Open-pollinated CHERRY TOMATOES



4105WO Wow! Still a work in progress. *Not available in 2012.*

4106HD Honeydrop ECO (62 days) Ind. From a chance sport in their tomato patch Rachel and Tevis Robertson-Goldberg from Crabapple Farm in Chesterfield, MA, selected and developed Honeydrop, sent us the original seed and continue to grow our seed crop. Growing in our estimation, Honeydrop is drawing comparisons to #**4282** Sun Gold, only with much less cracking in wet weather. Its sweet juicy fruity honey-colored treats taste almost like light grapes. This year, seeking to add another light-colored cherry to our selection, I trialed it against Blondkopchen, Dr. Carolyn, Isis Candy, Lemondrop and Weissbehart. It bested them all by such a wide margin in earliness, sweetness and complexity that we've declined to add any of those others. Try one Honeydrop, bet you won't be able to stop! *Still retains a noticeable percentage of recessive pink-fruit off-types in the selection.* New in 2011. ①

A=0.2g, $1.10 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.00 **E**=10g, $20.00

Be My Baby Gene Pool (65 days) Ind. This productive cherry is the ongoing result of a cross of three famous tomatoes: an heirloom potato-leaf beefsteak and two cherries, one orange and one red. The crossing and selection process began in 1997. Although it was selected for a red cherry with regular tomato foliage, a few plants will still be potato-leaved. Rogue them out because their flavor is not as desirable as the rest. The grape tomato in its background lends a rich sweet flavor somewhat akin to that of Sweet Baby Girl, which it replaced. Bred by Relentless; Earth Passionate Agrarian™–grown. ☙2007. ①

4107BB Be My Baby Gene Pool ECO ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4108BO Be My Baby Gene Pool OG CO-certified. ①

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.60 **D**=2g, $6.00 **E**=10g, $22.00

4109GD Gardener's Delight (68 days) Ind. Also known as Sugar Lump, and of German origin, not an heirloom as we had believed. Introduced by Ernst Benary in 1950-51. A parent of the famous hybrid Sweet 100. Produces the kind of rich sweet deep red 1+" cherries that you will want to pop into your mouth in profusion while you bask in the garden sunshine. The large plants need staking and will bear till frost. The fruits taste so good that I can overlook their annoying tendency to crack. ②

A=0.5g, $1.00 **B**=1g, $1.80 **C**=2g, $3.00 **D**=4g, $4.50 **E**=28g, $20.00

4115BO Black Cherry OG (75 days) Ind. Two-bite cherries with the dusky color and complex flavor typical of the best black tomatoes, juicy and delicious. Somewhat late for a cherry tomato, fruit ripens slowly and individually until frost, but worth the wait. Examine each plant closely at picking time: the dark-hued cherries are easy to lose in the foliage. Seems to tolerate the usual tomato diseases but fruits will crack readily in rainy weather. Will store for a short time if not cracked. A quart basket of Sun Gold, Honeydrop, Green Doctors Frosted and Black Cherry would be beautiful at market. OT, CCOF-certified. ①②

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00 **E**=10g, $22.00

Principe Borghese (75 days) Vigorous det. An Italian heirloom with excellent flavor. Used for sun-dried tomatoes as it has few seeds and little juice. In our humid climate, we require a solar dryer or a 100° oven to dry the fruits successfully. Bears small fruits in prolific clusters over a long season. CSA grower Jill Agnew lauds them for holding their perfect shape so well without cracking.

4116PB Principe Borghese ②

A=0.2g, $1.00 **B**=0.4g, $1.80 **C**=1g, $3.00

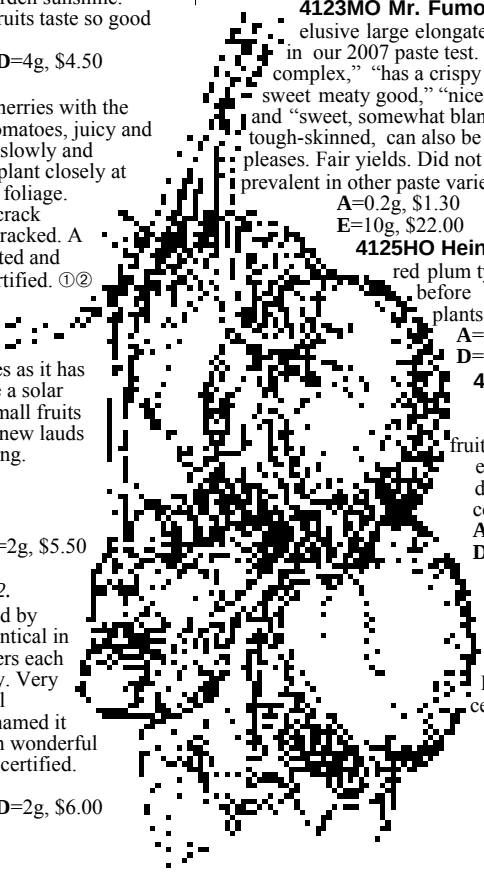
4117PO Principe Borghese OG MOFGA-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

Egg Yolk (78 days) Ind. No grower; *not available in 2012.*

4119VO Peacevine OG (78 days) Rampant ind. Selected by Peace Seeds from Sweet 100 cherry tomato and almost identical in fruit size and growth habit. Bears gazillions of sweet clusters each with 8 or so 1" fruits. Has the currant tomato in its ancestry. Very high in vitamin C and gamma-amino butyric acid, a natural nervous system sedative. That may be why Alan Kapuler named it Peacevine. Jan Sonstrom calls it, "dependable as ever, with wonderful sweet/tart rich flavor." Biodynamically grown but not BD-certified. Stellar NOP-certified organic. ①

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00 **E**=10g, $22.00



4121DO Green Doctors Frosted OG (79 days) Ind. We won't claim that a Green Doctors a day will keep the doctor away, but it couldn't hurt. We will predict that you won't be able to eat just one! Roberta, who has been growing only Sun Gold for cherries plans to add GDF to her line-up next year because it is so low acid, so sweet, so delicious, and was so much better than Green Grape in our trials. There are two strains of Doctors; this frosted one is the sweeter of the two. Fruits green with a silver frost, blush gold when ripe. Roberta's ripened the 3rd week of July from transplants, mine were much later so I have taken the mean days of maturity of the ten listers on Seed Savers Exchange for our catalog rating. Named in honor of the two doctors, Amy Goldman and Carolyn Male, who have written influential books on tomato varieties. Goldman discovered Green Doctors as a cherry sport of Dr. Carolyn in her 2002 garden and turned us on to it in her volume *The Heirloom Tomato,* ISBN-13-978-1-59691-291-5. Oval fruits 3/4" wide and 1 1/4" long average 19g, wonderful additions to a cherry tomato mix. Makes great salsa verde; just add lime. Large 5' rambling plants are prolific producers and resisted EB all season. **NEW!** MOFGA-certified. ①

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00 **E**=10g, $22.00

4122FO Fargo Yellow Pear OG (82 days) Ind. Introduced 1934 by Oscar Will & Co. of Bismarck, ND, yet another of famous breeder A.F. Yaeger's creations. He crossed Bison with Yellow Pear for earliness and higher yields. Our trialers all gave high ratings to Fargo. One called it "the first pear tomato that tastes like a tomato." Each plant produces about three dozen of the sweet tasty 1 oz. fruits. About twice the size of regular pear tomatoes, the meaty morsels are crack resistant. ICS, OT-certified. ①②

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

Open-pollinated PASTE TOMATOES

A highlight near the end of each growing season is our paste tomato taste-off. Over the years, we've gotten the most customer requests for Roma, San Marzano and Opalka. Opalka debuted in our 2010 catalog and met great response. San Marzano appears to be the Sugar & Gold of the paste set, its formidable reputation not backed by our taste tests. We've tried numerous strains and all have fallen short. Roma has similarly disappointed us.

See also **#6435** Speckled Roman OG in discounted specials.

4123MO Mr. Fumo OG (65 days) Ind. We welcome **BACK!** this elusive large elongated 3–6" pinkish plum tomato that was a winner in our 2007 paste test. Comments included "top of the line, rich, complex," "has a crispy brown flavor that lingers," "very flavorful, sweet meaty good," "nice blend of flavors, tart but full tomato flavor," and "sweet, somewhat bland but haunting. I would try it again." Though tough-skinned, can also be eaten out of hand where its tart sweetness pleases. Fair yields. Did not get blossom end rot, even this year when it was prevalent in other paste varieties. ☙2009. CO-certified. ①

A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00 **E**=10g, $22.00

4125HO Heinz 2653 OG (68 days) Det. An amazingly early red plum type which often ripens all its 2 1/2–3 oz. fruits before frost. Firm fruits for cooking, on compact plants. Heavy yields early. OEFFA-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4131GO Grandma Mary's OG (68 days) Ind. Jeanne Griffin of western Maine selected seed from this heirloom for 6 years for earliness and fruit size. Grandma's meaty 6–10 oz. fruits are very early for their size. Grandma produces fruit even during cold summers. ☙1992. MOFGA, VOF-certified. ①

A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4133LO Bellstar OG (74 days) Det. Bred at Smithfield Experiment Farm in Ontario and introduced in 1981. Bears red 4 oz. round paste tomatoes much larger than most others of this type. Delicious flavor is also good in salads. Ripening is spread over a long season. MOFGA-certified. ③

A=0.2g, $1.80 **B**=0.4g, $3.20 **C**=1g, $5.00 **D**=2g, $9.50 **E**=10g, $40.00

Open-pollinated Paste Tomatoes, continued

Opalka (82 days) Ind. Its third time in our taste test (2009) proved the charm for Opalka. Has received mostly favorable ratings in each of the last 4 seasons, even in sub-par tomato years. Comments from each year, "an oasis of flavor in a desert of tomato hell," "a pleasing texture and good aftertaste lingers," "round and mellow flavor…full-bodied" are telling. Expect copious yields of 3x5" massive solid bull's horn-shaped red fruits with dry texture and few seeds. Also dries well. While some tomatoes faltered during the hot dry spells in 2010, Opalka produced consistently. The crinkly foliage is normal and not an indication of plant disease. Polish heirloom brought by the Opalka family to Amsterdam, NY, around 1900.

4134PL Opalka ②
A=0.2g, $1.10 **B**=0.4g, $1.80 **C**=1g, $3.00 **D**=2g, $5.00 **E**=10g, $18.00

4135PO Opalka OG MOFGA-certified. ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00 **E**=10g, $22.00

4136VM Vilms (82 days) Ind. Originally from Sweden, has been maintained by Glenn Drowns since 1986. A small vibrant 4 oz. blood-red plum tomato, firm with excellent tart-sweet flavor and meaty solids. Can be pear shaped, plum shaped or double lobed. Very productive and holds well off the vine. Amy Goldman recommends oven-roasting them. **NEW!** ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4137NO Orange Banana OG (85 days) Ind. I never would have believed that the best tomato sauce comes from an orange tomato. But the proof is in the eating and Orange Banana has been the perennial winner of our annual paste taste-offs. Comments from tasters include, "the best flavor and sweetness yet, wow!" and "gourmet candlelight." No wonder Banana has become a staple of David's famous tomato sauces. Its amazing sprightly sweet flavor, reminiscent of Sun Gold but with more depth and diverse tones, makes an ambrosial sauce by itself and adds a vivid fruity complexity to any sauce with other tomato varieties. Erica Myers-Russo in CT grows it exclusively for drying. She claims it "makes the sweetest dried tomatoes ever." Attractive cylindrical orange fruits 3–4" long average 4–5 oz. Susceptible to blossom-end rot. Originally offered by Moscow seedswoman Marina Danilenko in the 1996 Seed Savers Yearbook. MOFGA-certified. ①
A=0.2g, $1.30 **B**=0.4g, $2.20 **C**=1g, $3.50 **D**=2g, $6.00 **E**=10g, $22.00

4138CO Casady's Folly OG (85 days) Det. We loved the striped appearance of Tom Wagner's # **6435** Speckled Roman, but not its tendency to succumb to ANTH. Here is another even more psychedelic-looking Wagner creation with pronounced carrot-orange zig-zag striping and with much better disease resistance. 5 oz. fruits narrower than Speckled Roman's, sausage-shaped, often with small nipple tips. Very firm thick skin, solid and meaty, good both for slicing and for making a nourishing dark-red sauce with a pleasing fruity quality. **NEW!** OT-certified. ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $22.00

4140AO Amish Paste OG (85 days) Ind. 26 seed savers can't be wrong! That's how many listed Amish Paste in the 2011 Seed Savers Yearbook, making it one of the most popular items in the Exchange. Their comments tell it all, "excellent sauce and canning tomato," "heavy yield and good flavor," "my favorite paste tomato for the past eight years," "large, meaty, heart-shaped fruit," "flavor…well-balanced, tending toward tartness." Ranked as the 2nd best-tasting variety at the 2006 Heirloom Tomato Tasting at Decorah, IA. Though it has not fared that well in some of our sauce tests, its flavor has been consistently good even in poor tomato years such as 2008 and 2009. Strong producer of oxheart fruits up to 8 oz. Thick bright-red flesh. Larger and better than Roma. Wisconsin heirloom from Amish farmers in the 1870s, first surfaced in the 1987 SSE Yearbook. We have observed some inherent variation, based on how this variety responds to its environment. Needs room and good nutrition to set mostly nippled fruits. Crowding, shading or stress cause reduced fruit size and less nippling. Recently boarded Slow Food's Ark of Taste. MOFGA, ICS-certified. ①
A=0.2g, $1.20
B=0.4g, $2.00
C=1g, $3.20
D=2g, $5.50
E=10g, $20.00

4141HO Hog Heart OG (86 days) Ind. Brought from Italy to Massachusetts, probably between 1910 and 1920, and then by Susan Eastman and Ed Lacy of Gray, ME, to the Exhibition Hall at the 1988 Common Ground Fair, Hog Heart has won many fans. So-named because it sometimes produces large heart-shaped double fruits. More often, though, its 6–8 oz. tomatoes are shaped like banana peppers. A meaty paste tomato noted for its sparse seed cavity, good solids and excellent flavor fresh, canned or frozen. It is late for extreme northern areas and some fruits catface. "For my money the best paste tomato going," says Amy LeBlanc. ☙1999. VOF-certified. ①
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

4146BO Blue Beech OG (90 days) Ind. This large elongated paste tomato won our sauce test in 1997, besting several well-known varieties. We received seed from Annette Smith of Blue Beech Farm in Danby, VT, and have named the variety in honor of her farm. Our Maine seed grower complains that it is not seedy (good for sauce, not good for seed production) and she has given it a similar but uncomplimentary name! Smith got the tomato from her neighbor's niece's uncle who brought it to Vermont from Italy during World War II. This Roma type has been acclimated in chilly Vermont for the last 50 years, so it is better adapted to cold climates than Roma. Some years it makes a richly textured sweet sauce that's just brimming with flavor. Fruits, averaging 6-8 oz, often have green shoulders. Needs long season, but most recent years, with their mild extended falls, have facilitated ripening. ☙1999. MOFGA-certified. ①
A=0.2g, $1.50 **B**=0.4g, $2.50 **C**=1g, $4.00 **D**=2g, $7.00 **E**=10g, $30.00

TOMATO MIX

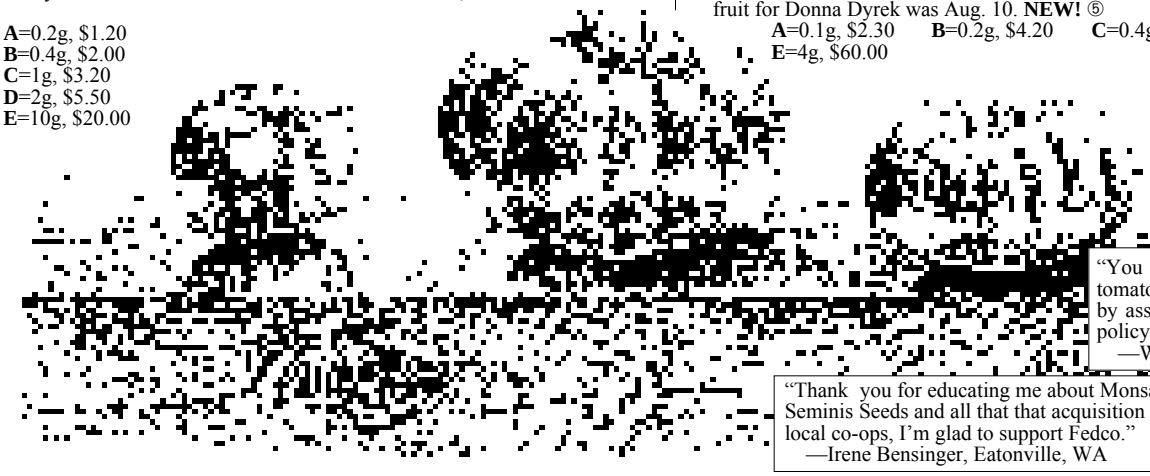
4149MO Heirloom Tomato Mix OG You'd love to be adventurous and try them all but you haven't space for that many tomato plants? Or can't make up your mind which ones to select? Here's the solution: Skip the fuss and leave the choosing to us! We'll mix a bunch of varieties (all organically grown seed) in one packet. You'll get different colors, sizes, shapes and flavors. All you'll need is an open mind, a good sense of observation, unjaded taste buds and acute deductive faculties. Then you can figure out which ones you like and order them by name next year.
A=0.2g, $1.20 **B**=0.4g, $2.00 **C**=1g, $3.20 **D**=2g, $5.50 **E**=10g, $20.00

Hybrid TOMATOES

Tomatoes were first hybridized in England in 1939. The tomato seed industry is now 88% hybridized. After extensive trialing we have upgraded our hybrid tomato section, at last replacing the dropped Seminis/Monsanto varieties with comparable alternatives. We welcome feedback on all our **NEW!** varieties.

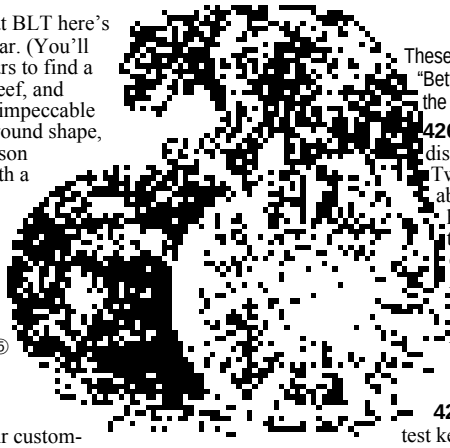
4207JT Juliet (60 days) Ind. There will be no lack of Romeos who want to nibble on these and no lack of the delectable little plum-shaped fruits for them to adore. They come in clusters everywhere, 12–18 1–2 oz. grapes to the cluster and an astounding 50–80 per plant. The glossy red fruits have an engaging sweetness that will make you want to keep popping them in your mouth. They are good stewing tomatoes and excellent salad tomatoes, but we thought they had too much juice for paste until we stuck them into our 2005 test. To our surprise, we found their sauce to be tangy with a diverse complex richness and full sweet tomato flavor. Then, too, Lynn Sagalyn of Philadelphia reports that "Juliet is my favorite tomato for drying. Cut them in half, flip out the seeds and dehydrate…They are like tomato 'raisins'—chewy and sweet to just eat, put on pizza, or add some red to a winter stir-fry." As if all this weren't enough, this 1999 AAS winner is firm enough to hold on the vines for up to two weeks, crack resistant, tolerant to LS and LB, and fairly invulnerable to insect or slug damage. ③
A=0.2g, $1.80 **B**=0.4g, $2.80 **C**=1g, $6.00 **D**=2g, $11.00 **E**=4g, $20.00

4211PM Premio (60 days) Ind. A primo early indeterminate cluster tomato, Premio sends out cascades of perfectly round red uniform thick-skinned 4 oz. fruits. Firm with nice flesh, texture, sweetness and flavor, they ripen 4–8 to a cluster and keep coming and coming. First ripe fruit for Donna Dyrek was Aug. 10. **NEW!** ⑤
A=0.1g, $2.30 **B**=0.2g, $4.20 **C**=0.4g, $8.00 **D**=1g, $16.00 **E**=4g, $60.00



"You dropped my favorite tomato, Early Girl. Your 'guilt by association' with Monsanto policy is misguided."
—Walter Noll, Etna, NH

"Thank you for educating me about Monsanto's acquisition of Seminis Seeds and all that that acquisition implies. As a member of local co-ops, I'm glad to support Fedco."
—Irene Bensinger, Eatonville, WA



4218BC Bobcat (65 days) Det. For a great BLT here's a companion to our new #**2856** Mayan Jaguar. (You'll have to supply the bacon). It took us six years to find a replacement for Seminis/Monsanto's Big Beef, and this cat is perfect in all ways. Has the same impeccable looks, disease resistance, slightly flattened round shape, 10–13 oz. maincrop size, thin skins, midseason maturity and excellent taste. Flavor mild with a spicy sweet accent and slight acidic complexity, color medium red. A massive plant with huge leaves, thick strong stems and big fruit set. From an April 4 start and June 11 transplant date, our trialer harvested her first ripe fruit on Aug. 15. Take this to market and bring home the bacon! Resists F1, F2, GLS and N. **NEW!** ⑤

A=0.1g, $2.50 **B**=0.2g, $4.80 **C**=0.4g, $9.00 **D**=1g, $18.00 **E**=4g, $70.00

4230SS Spring Shine (71 days) Ind. Our customers have yet to take a shine to this early tomato that we like better than Early Cascade. Outstanding in Donna Dyrek's 2007 trial and again in my 2008 grow-out, it sets 5 oz. deep red globes in clusters with 4–6 fruits per branch. These have a pleasing balance of acids and sugars that brought high taste ratings even in the subpar tomato year of 2008. First ripe fruit was Aug. 14 for Dyrek, Aug. 16 for me—ahead of most of the pack. Tends to develop green shoulders. ③

A=0.2g, $1.30 **B**=0.4g, $2.40 **C**=1g, $3.60 **D**=2g, $5.50 **E**=4g, $10.00

4233JS Jet Star (72 days) Compact Ind. As hybrids go, Jet Star has been around for a long time. The 1979 Harris catalog reported, "Our Jet Star met with as great a reception as any introduction we ever offered." Almost 30 years later it remained their best-selling hybrid tomato. In a test of 16 commercial varieties grown in high tunnels at Highmoor Farm, it had the highest yield of total marketable fruit and of premium-quality fruit. The University of Maine Food Lab also rated it the top greenhouse tomato. Year after year it was the best early full-sized tomato in our trials, ripening prolific quantities of cosmetically perfect 7–8 oz. globes with outstanding flavor. The smooth firm fruits almost never scar or crack and have excellent interior and exterior coloration. Resistant to F1 and V. ⑤

A=0.2g, $2.20 **B**=0.4g, $4.20 **C**=1g, $10.00 **D**=2g, $18.00 **E**=4g, $35.00

4238LO Luci 2103 OG (73 days) Ind. News flash Oct. 16, 2011: At last we have something in common with Tom Brady's Patriots who just replaced Buffalo atop their division standings. Our long quest to replace the Buffalo tomato in our greenhouses is also finally victorious. Uniform productive Luci was the first of its class to ripen in our trial, setting about ten clusters, each with three or four fruits. We loved Luci for its earliness, uniformity, flavorful high yields and disease resistance. 6 oz. red fruits mild, juicy, a little mealy, cracking only on rare occasions, never have green shoulders. Beautiful sturdy vigorous healthy plants show good leaf cover. Rated next best to Buffalo in our trial, but, like Brady, should remain in the hunt for the championship of their league long after Buffalo is gone. **NEW!** AGRIOR-certified. ③

A=0.1g, $2.20 **B**=0.2g, $4.00 **C**=0.4g, $7.00 **D**=1g, $16.00 **E**=4g, $56.00

Hybrid CHERRY TOMATOES

4252SG Sun Gold (57 days) Ind. To quote one of our customers, "Without these little babies, there's *no summer*." A perfect combination of deep sweetness with a hint of acid tartness, so good that for several years it took away our incentive to do cherry tomato trials because all others paled in comparison. Small fruits, borne in prolific clusters, ripen very early to a rich apricot color and keep producing till frost. Pick early when heavy rains are forecast. Almost 100% split as a result of the 6 1/2" rain we received from Hurricane Irene. Resists F1, TMV. ⑤

A=0.1g, $2.40 **B**=0.2g, $4.50 **C**=1g, $22.00 **D**=2g, $40.00 **E**=4g, $76.00

4256SW Super Sweet 100 (78 days) Ind. Like Sweet 100, only with more disease resistance. Very popular hybrid cherry tomato ripens clusters of 1" round sweet fruits. Should be staked. Will split in rainy conditions. Resistant to V and F1. ⑤

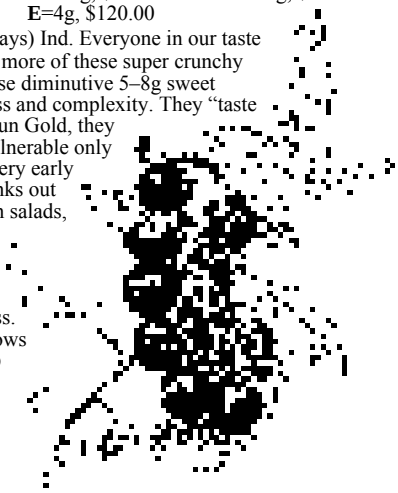
A=0.2g, $4.00 **B**=0.4g, $8.00 **C**=1g, $20.00 **D**=2g, $40.00 **E**=4g, $76.00

Hybrid GRAPE TOMATOES

These grape-shaped fruits have become quite the rage in the last few years. "Better late than never" might be appropriate here, as we belatedly jump on the bandwagon with our first two offerings. Enjoy!

4266HB Honey Bunch Red Grape (45 days) Ind. Was this how disgraced former Congressman Anthony Weiner addressed his Twitter correspondents? Never mind, the only thing scandalous about this luscious grape tomato is its over-the-top sweetness with a honeyed nuance that could be habit-forming. Our trialers loved the texture of these bright red 10–14g 1x1 1/2" fruits, the size of cherries, but the shape of grapes. "Like small Juliets," they said. And they are oh so early! with trialer Donna Dyrek beginning the harvest on July 5. Fruits showed good crack resistance in a wet year. Broad tomato leaf foliage. High-yielding vigorous vines are tolerant to EB. Happy snacking! **NEW!** ③

A=0.1g, $3.80 **B**=0.2g, $7.50 **C**=0.4g, $14.00 **D**=1g, $32.00 **E**=4g, $120.00



4271LU Lucia (54 days) Ind. Everyone in our taste test kept coming back for more of these super crunchy red grapes. The consensus: these diminutive 5–8g sweet fruits can boast of some tartness and complexity. They "taste like a red Sun Gold." Unlike Sun Gold, they have some crack resistance, vulnerable only in cold wet weather. Starting very early (July 15 in our trial) Lucia cranks out tons of bright red fruits great in salads, on pizzas or in sauces. Heron loved these so much in the trials that he plans on growing them for himself next year. They left him almost speechless. Anyone who knows Heron knows that speaks volumes! **NEW!** ③

A=0.1g, $3.20 **B**=0.2g, $6.20 **C**=0.4g, $12.00 **D**=1g, $25.00 **E**=4g, $95.00

Hybrid PASTE TOMATO

4293SD San Diego (64 days) Det. Won our paste test of determinate hybrids, producing 30 scarlet to red 2 1/2 oz. fruits that began ripening during the third week of July. Most had ripened by Aug. 10 but the plants were the lone in the trial to hold out until September without succumbing to EB. Fruits mostly oval-shaped without cracking or green shoulders. Answers our need for a very uniform and marketable disease-resistant hybrid paste. **NEW!** ③

A=0.1g, $3.60 **B**=0.2g, $7.00 **C**=0.4g, $12.00 **D**=1g, $28.00 **E**=4g, $105.00

Diseases: Bacterial Canker, Spec and Spot
Cultural controls: disinfect greenhouse materials & cages, farming tools & gloves, avoid overhead irrigation, don't work crop when wet, rotate crops, use compost.
Material: Copper (#**8851-2**).

Disease: Anthracnose
Cultural controls: rotation, mulching, minimize plant wetness, staking, use compost.

Disease: Early Blight
Cultural controls: rotation, avoid stressing plants, staking, keep leaf wetness to a minimum, mulching, indeterminate varieties are more resistant/tolerant, disinfect stakes & cages.
Material: Trichoderma harzianum (Root Shield #**8858**, Plantshield #**8859**) or Streptomyces lydicus (Actinovate #**8855-6**).

Disease: Late Blight
Cultural controls: Destroy cull potatoes & potato volunteers, avoid overhead irrigation.
Material: copper products.

Disease: Septoria Leaf Spot
Cultural controls: space plants for good air circulation.
Materials: copper products.

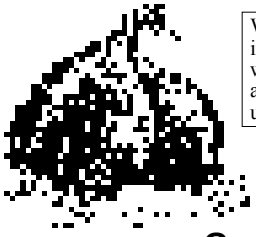
Pest: Tomato Hornworm
Control: Look for frass (droppings) and handpick. Eeeuww!
Material: Bt *kurstaki* (#**8902**), Spinosad (#**8922-4**).

Pest: Tarnished Plant Bug
Cultural controls: Floating row covers (#**9101**), good weed control.
Material: try Pyrethrum (#**8925**) products.

Directions for ordering SEEDS

- See pages 2 & 3 for more information.
- Order only seeds (#'s 1-6499) on seeds form. Do not order potatoes, cover crops, supplies or books here. Potatoes order form is page 74C. Cover crops, supplies and books order form is page 74E.
- Be sure to use a current catalog. Prices, catalog numbers and availability change!
- Please fill in your address. We must have a road name for UPS shipments.
- Please plan your order before filling out the form. If you need more pages, make photocopies, download them from our website (www.fedcoseeds.com) or call (207) 873-7333.
- Please keep a copy of your order. Send us the original.
- Write clearly in **pen**, not pencil. Pencil glares and is hard to see.
- Your neatness helps us fill your order accurately and quickly. Avoid arrows, cross-outs and other distractions if possible.
- Make sure you have the correct catalog number with its two-letter suffix. Do not write the item name.
- Make sure you are ordering an available size. Write the code letter for the size. Do not write the weight.
- Please **make a subtotal for each column** and total your order even if paying by credit card.
- Writing your order in catalog number order is helpful, but not essential.
- Please start at #1 and fill consecutively. Skip spaces only for cross-outs. Finish the front side before using the back.
- All add-ons are treated as separate orders.

- **Only MAINE residents and people picking up orders pay sales tax**.
- All Fedco Seeds items are taxable.
- Seeds discounts apply only to items #1-6499.
- **Please attach a separate page for suggestions**.



When filling your order please include the catalog letters as well as the numbers. If you get a number wrong, the letters help us figure out what you wanted.

"Thanks for getting group orders online. It has gone very smoothly from this end!"
—Patricia Jaquith, Dummerston, VT

Group orders

We will pull and package each order separately and ship all to *one address*. Discounts apply to one division, combined totals. You may not combine orders from different divisions to qualify for a higher discount.

We now accept group orders **online**. Group coordinators can find details at our website. Go to the Seeds page and click on Group Ordering.

Or use the **mail** and bundle individual orders with a summary form for each division with address information and totals. Please keep copies.

How to prepare a summary form:

- Attach a separate summary page for **each division** (Seeds, MT, OGS, Trees). Use an order form with no items on it, fill in name and address blanks and totals information. See example.
- A summary form without individual totals is acceptable.
- Please use **one method of payment** for each division order (one check or one credit card). You may combine totals for all divisions and send one check. Include credit card number and expiration date on summary form for each division.
- Additional orders over $50 qualify for original (or largest) discount. Indicate if you ordered seeds from us previously this season and tell what discount you qualify for.
- Figure all discounts from adjusted total. See example.
- We treat all add-ons as additional orders.

Group coordinators' responsibilities:

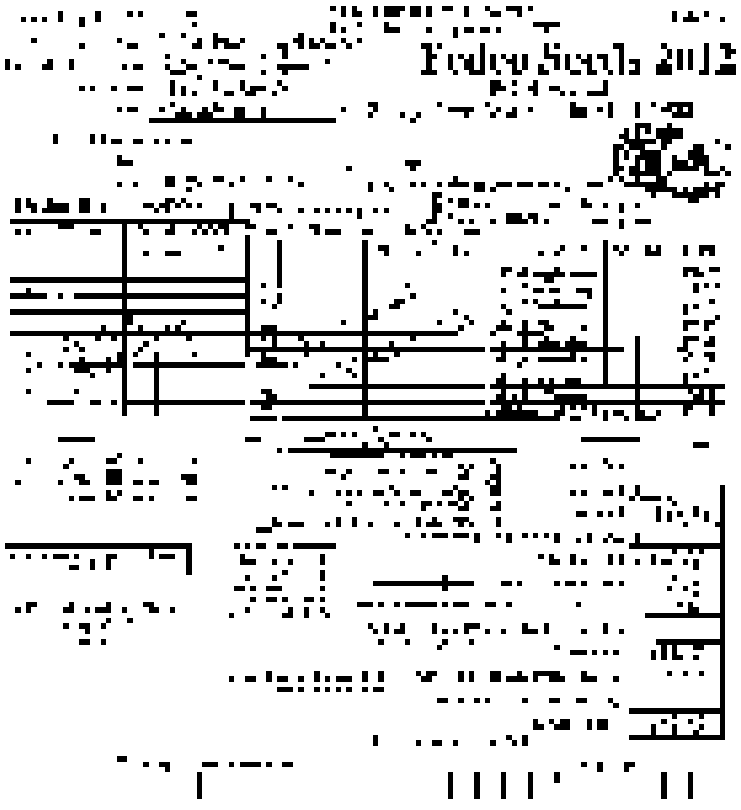
- Collect individual orders and payments from group members.
- Make sure each item of each individual order is on proper form (for example, no potatoes on the seeds form); make necessary corrections.
- Add up order subtotals for each division. Keep track of individual payments and settle with group members after the final shipment.
- If your total places you just over a discount level, consider buying a little more as insurance against a math mistake that would bring you back to a lower discount level.
- Bundle orders for each division with a summary and one payment and mail to us.
- Receive and distribute back-ordered items.
- Send us correction sheets for any errors in group order.

Fedco Seeds' substitution policy
We ask you on your order form whether you will accept substitutions and we abide by your wishes. By checking "yes" you will reduce the probabilities of getting out-of-stocked.

- If you ordered a snow pea, we will substitute a snow pea. We will give preference to very similar snow peas of comparable maturity date, height, color, etc, but will substitute any other snow pea we have if necessary. If we have no other snow peas, we will *not* substitute a shell pea or a bean or anything else.
- We will substitute hybrids for open-pollinated varieties only when that is our sole alternative.
- If we have to substitute a more expensive variety, we will not charge you more.
- If we run out of organically produced seed we will substitute high quality conventional seed for the same variety unless you instruct us otherwise.
- If we run out of conventional seed we may substitute organically produced seed for the same variety, but charge you only the conventional seed cost.
- We are sorry that we cannot honor specific substitution requests.

Directions daunting? Order online: www.fedcoseeds.com

"Thank you for your perfect math stamp. So reassuring. I wish the IRS used it."
—Joanna Hoyt, St Francis Farm, Lacona, NY



VEGETABLE PLANTING GUIDE

Vegetable	Catalog # range	avg. sds/oz	sds/100'	Pkt plants	distance apart	thin to	row spacing	seed depth	min soil temp °F	ideal soil temp	hardiness	planting dates
Artichoke	3608	180	T	10 pl	3'	No	2'	1/2"	60	65-85	MH	tp late
Arugula	3020-29	13000	3g	60'	1"	4"	18"	1/4"	50	65-85	MH	May 1/Aug 1
Asian Greens, assorted	3200-23	5000-10000	varies					1/4"	50	65-85	MH	early May
Basil	4414-4470	18000	5g	10-80'	1/2"	4"	18"	1/4"	65	70-85	VT	June 1
Bean, Bush, Dry	200-79,326-90	90	8 oz	25'	3-4"	No	2-3'	1"	60	60-80	T	late May
Bean, Fava	298-299	17	1#	12'	4-6"	No	2-3'	1"	50	60-80	H	April
Bean, Lima	323-325	65	1#	40-60'	4-6"	No	3'	1"	60	70-85	VT	late May
Bean, Pole	280-97,318,322-5,371	65	6 oz	10 pl/oz	6/pole	3/pole	3-4'	1"	60	60-80	T	late May
Bean, Soy	480-99	85	5 oz	10'	3"	No	3'	1"	60	70-90	T	June 1
Beet	2100-99	2200	5/8 oz	20'	1"	2-4"	12-18"	1/2"	40	60-85	H	Apr-July
Broccoli	3300-29	7000	5g	.5g=10'	1"	24-30"	30"	1/4"	50	65-85	MH	tp May/June
Brussels Sprouts	3330-49	5000	5g	.5g=10'	1"	24-30"	24-30"	1/4"	50	65-85	H	tp May/June
Cabbage	3350-99	7500	5g	.5g=10'	1"	24-30"	24-30"	1/4"	40	55-95	MH	tp May/June
Carrot	2000-99	18000	10g	1/8oz=35'	1/4"-1/2"	1"	16-24"	1/2"	40	60-85	H	Apr-July
Cauliflower	3400-40	8000	4g	.5g=12'	1"	30"	30-36"	1/4"	40	55-80	MH	tp May/June
Celery/Celeriac	3610-49	75000	T	500	8"	No	2-3'	1/8"	40	59-70*	T	tp June 1
Chard	3030-42	800-2000	1 1/2 oz	5-13'	1"	3-6"	18-24"	1/2"	40	50-85	H	ASAP
Chicory	3046-48	18000	T	300 pl	1'	No	2'	1/8"	50	60-85	H	tp late June
Chinese Cabbage	3224-3225	9500	1/4 oz	25'	1/2"	12-18"	24-30"	1/4"	50	70-95	MH	late May
Corn, OP	500-699	100	4 oz	50'	3"	1'	3'	1"	50	60-95	T	late May
Corn, hybrid	500-699	155	4 oz	50'	3"	1'	3'	1"	50	60-95	T	late May
Cress	3050-58	9000	3g	50-70'	1/2"	1-2"	18"	1/4"	50	65-85	MH	May 1
Cucumber	1200-1399	1000	1/2 oz	11'	2"	4"	3-4'	1/2"	60	65-95	VT	June 1
Eggplant	3650-91	6000	T	40 pl	20-30"	No	30-36"	1/4"	60	75-90*	VT	tp early Jun
Endive	3060-92	18000	5g	40'	1"	8"	18-24"	1/4"	50	60-85	H	Apr-July
Gourds, large	1960-99	175	T	20 pl	6/hill	2-3/hill	6'	1/2"	60	70-90	T	tp early Jun
Gourds, small	1900-59	500	1/5 oz	10 hills	6/hill	3/hill	4-6'	1/2"	60	70-90	T	late May
Kale/Collards	3441-69	7500	5g	40'	1"	12"	2'	1/4"	50	65-85	VH	ASAP-July
Kohlrabi	3470-79	8500	4g	50'	1"	24"	24"	1/4"	50	65-85	MH	tp May/June
Leek	2400-29	10000	T	600 pl	8"	No	2'	1/2"	50	60-80	MH	tp May 1
Lettuce	2700-2999	25000	4g	1g=25'	1/3"	1'	12-18"	1/8"	35	40-80	H	ASAP-Aug
Mâche	3100-19	18000	1/4 oz	30'	1/2"	2"	18"	1/4"	48	50-80	VH	ASAP-Aug
Melon	900-49,1000-99	1200	T	14-20 hills	3/pot	2/hill	5'	1/2"	60	75-95	VT	tp early Jun
Mustard	3228-59	15600	1/8 oz	40'	1"	4-6"	2'	1/4"	50	65-85	MH	Apr-Aug
Okra	3695-99	420	T	30 pl	12"	No	2-3'	1/4"	60	70-90	VT	tp early Jun
Onion/shallots	2440-99	7000	T	450 pl	4"	No	12-18"	1/2"	40	50-95	MH	tp May 1
Pac Choy	3260-70	12500	1/4 oz	30'	1/2"	6-12"	2'	1/4"	50	70-95	MH	May
Parsley	3155-79	18000	1/4 oz	25'	1/4"	1"	12-18"	1/4"	40	50-80	VH	Apr-Aug
Parsnip	2305-10	5000	1/2 oz	25'	1/2"	2-3"	12-18"	1/2"	52	60-77	VH	Apr-July
Pea/snow, snap	700-899	110	8 oz	25'	1 1/2"	No	3-5'	3/4"	40	50-75	plants H	ASAP
Pea/snow, snap for fall crop		110	8 oz	25'	1 1/2"	No	3-5'	3/4"	40	50-75	blossoms,pods T	July
Pepper	3700-3999	4500	T	10-50 pl	12-18"	No	2-3'	1/4"	60	68-95	VT	tp early Jun
Pumpkin	1700-1799	100-280	1/2-1oz	3-8 hills	5/hill	3/hill	6'	1"	60	70-90	T	late May
Radicchio	3186-91	varies	1/2 oz	30'	1"	8-10"	18"	1/8"	50	60-85	H	late June
Radish	2200-99	2500	1 oz	12'	1/2"	2"	18"	1/2"	40	55-85	H	Apr-Aug
Rutabaga/Turnip	2350-99	9000	1/3 oz	40'	1/2"	3-6"	18"	1/4"	40	60-95	H	Apr-July
Scallion	2439	9200	1/4 oz	15-25'	1/2"	1-2"	12-18"	1/2"	50	65-85	MH	ASAP-Aug
Scorzonera	2322	2000	.6 oz	20'	1"	2"	18"	1/2"	50	65-85	H	Apr-Jun
Spinach	2500-99	1400-2600	1/2 oz	40'	1"	2"	12-18"	1/2"	35	45-65	VH	ASAP
Spinach, fall crop	2500-99	1400-2600	1/2 oz	40'	1"	2"	12-18"	1/2"	35	45-65	VH	Aug
Squash, patty pan	1577-90	300	.6 oz	5-8 hills	5/hill	2-3/hill	4'	1"	60	70-90	T	late May
Squash, winter	1600-1699	120-440	1/2-2 oz	3-15 hills	5/hill	3/hill	4-6'	1"	60	70-90	T	late May
Squash, summer	1400-1599	320	1/2 oz	5-8 hills	5/hill	2-3/hill	4'	1"	60	70-90	T	late May
Tomato	4000-4299	9000	T	50-125pl	3'	No	3'	1/4"	50	60-85	T	tp June 1-10
Watermelon	950-99,1100-99	600	T	7-14 hills	3/pot	2/hill	5'	1/2"	60	75-95	VT	tp early Jun
Zucchini	1400-79	180	1 oz	4-6 hills	5/hill	2-3/hill	4'	1"	60	70-90	T	late May

Abbreviations Pkt plants=how many row feet or hills our smallest packet will plant T=transplanted only, in our climate.
tp=transplant pl=plants g=grams, 28.4g=1oz. No=not necessary to thin
*Celery and some varieties of eggplant require fluctuating day and night temperatures for good germination.

Hardiness rating VT=very tender: will not survive frost, can be damaged by temperatures under 40°
T=tender: will not survive frost
MH=moderately hardy: survives light frosts
H=hardy: survives frost generally to the low twenties
VH=very hardy: will overwinter if protected

Approximate planting date: ASAP=as soon as ground can be worked, does not thrive in heat
Approximate planting dates are for *our* Central Maine climate. Please make appropriate adjustments for your climate, using hardiness as a guide.

Notes: Seed counts are provided as a *guide*, not a *guarantee*. They vary from cultivar to cultivar. Planting rates will vary if intensive methods such as beds are used. Minimum soil temperatures are the lowest that will permit *any* germination. Expect slow spotty germination if you plant below or above the ideal range. For a good stand and quickest emergence plant as close to the middle of the ideal range as possible. If you have specific cultural questions, consult more detailed resources or get in touch with us.

Cultural information for flowers is on pages 76-77 and for herbs on page 78.

A few seeds with unusually thick or hard coatings may benefit from **scarification** just before sowing. This is accomplished by nicking them with a knife, a pinpoint or lightly scratching them with sandpaper.

Some seeds need to be **stratified** before sowing. This tricks the seed by thinking it has gone through winter followed by the gradual warm-up of spring. It is accomplished by first moistening and then chilling the seed for a specified period of time.

Flowers at a Glance

Name	item#	Botanical Name	APB	height	uses	season	sow	start	temp	days	notes
Achillea (Yarrow)	5705, 6008	*Achillea spp.*	P	18-24"	BDC	ES-F	DS DF TP	8-10	C	10–14	Lt
Acroclinum	5710	*Helipterum roseum*	A	2'	DCB	MS-F	DW TP	8-9	C	14–21	
Ageratum	5001	*A. houstonianum*	A	8",24"	BCD	ES-F	TP	6-8	W	4–6	◗S
Alyssum	5005ff	*Lobularia maritima*	A	2-4"	FBW	ES-F*	DS TP	8-9	55-70	8–14	◗S
Amaranth	5011ff	*Amaranthus spp.*	A	3-5'	CND	MS-F	TP DS	6-7	W	10–14	◗Lt
Ammi Majus	5015	*A. majus*	A	3-4'	C	ES-LS	TP DS	8-10	M	7–14	Ch2w
Aster, China	5028ff	*Callistephus chinensis*	A	12-30"	BC	ES-F	TP	12-14	W	10–21	◗
Baby's Breath	6020	*Gypsophila paniculata*	P	24-40"	BDC	MS-LS	TP DS	8-10	M	14–21	S
Bachelor's Button	5051ff	*Centaurea cyanus*	A	24-36"	BC	ES-F*	DW TP	8-9	C	7–14	◗Cv
Balloon Flower	6021	*Platycodon grandiflorum*	P	30-42"	CB	MS-LS	TP	6-8	M	15–30	S
Balsam	5066	*Impatiens balsamina*	A	24"	B	MS-F	DW		W	8–10	◗S
Bee Balm	6022	*Monarda didyma*	P	30"	BCD	MS-LS	DS TP	8-10	C	14–21	◗S, Lt
Begonia	5070	*B. x tuberhybrida*	A	8-12"	BW	ES-LS	TP	12-14	W	14–28	●
Bellflower	6028	*Campanula carpatica*	P	6-10"	B	ES-F	TP	6-8	C	7–21	◗
Bells Of Ireland	5714	*Moluccella laevis*	A	30"	DBN	MS-F	TP	6-8	C	12–21	◗S, Ch5d50°
Blazing Stars	5716	*Liatrus spicata*	P	18"	BCD	LS	DS TP	6-8	C	21–28	
Bupleurum	5720	*B. griffithii*	A	2'	DCN	ES-F	TP	8-10	C	14–21	◗
Butterfly Weed	6034	*Asclepias tuberosa*	P	24"	BCN	ES-LS	DS DF		W	21–28	Ch4w34-40°
Cabbage & Kale, Flowering	5156ff	*Brassica oleracea*	A	8-18"	BNE	F-F*	DSTP	5-7	C	7–14	start in June for Aug TP
Calendula	5079ff	*C. officinalis*	A	18-24"	BDCE	ES-F*	DS TP DF	6-8	C	4–10	Cv
Canary Creeper	5094	*Tropaeolum pereginum*	A	8'	BV	LS-F	DW TP	6-8	C	7–14	◗Cv
Candytuft	5098	*Iberis odorata*	A	20"	BGF	MS-LS	DWG		M	14–21	
Catmint, Persian	6038	*Nepeta mussinii*	P	12"	BG	Sp-MS	TP DS DF	6-8	C	10–14	
Celosia, plume	5725	*Celosia spp.*	A	3-6'	DCNB	LS	TP	8-10	W	10–14	
Cerinthe	5105	*C. major purpurescens*	A	12-18"	B	MS-F*	TP DW	6-8	W	7–14	
Chinese Lantern	5736	*Physalis alkekengi*	P	24"	DNC	MS-F	TP DF	8	W	14–21	◗S, invasive
Clarkia	5121	*C. unguiculata*	A	24"	B	MS-LS	TP DW	6-8	C	7–10	◗S
Cleome	5123ff	*C. hasslerana*	A	48"	BN	ES-LS	TP DW	4-6	W	7–14	Ch, S
Cockscomb	5730ff	*Celosia spp.*	A	10"	BND	MS-LS	TP	4	W	10–14	
Coleus	5131	*Solenostemon scutellar.*	A	10-12"	WBN	MS-F	TP	8-10	M	10-14	●Lt
Columbine	6042ff	*Aquilegia spp.*	P	18-30"	B	Sp-ES	TP DS	6-8	W	14–28	●Lt,Ch3-4w
Coneflower, Prairie	6055	*Ratibida columnifera*	P	1-3'	B N	MS-LS	TP	6-8	W	7–42	Ch1w
Coral Bells	6062	*Heuchera sanguinea*	P	12-18"	BG	ES-MS	TP	8-10	W	7–21	◗Lt
Coreopsis	6068	*C. grandiflora*	P	18"	BC	ES-F	TP	8-10	C/M	7–21	◗Lt
Cosmos	5135ff	*C. bipinnatus*	SSA	3-5'	BCS	MS-F	DW TP	2-4	W	7–10	Lt
Cosmos, Yellow	5134	*C. sulphureus*	A	2-3'	BC	MS-F	DW TP	2-4	W	7–10	
Dagga, Wild	5142	*Leonotis leonurus*	A	6'	B	MS	TP	12-14	C/M	10–21	
Dahlia	5143	*D. x hybrida*	A	12-14"	BC	MS-F	TP	6-8	W	7–14	◗
Daisy	6272ff	*Leucanthemum x super.*	P	36"	BC	ES-MS	TP	6-8	W	7–14	
Delphinium	6080ff	*D. x cultorum*	P	3-6'	BCD	MS-LS	TP	10	M/W	14–21	Ch2-4w
Dianthus (Carnation, Pink)	5145ff	*Dianthus spp.*	A	12-20"	BCF	MS-LS	TP	8	M	7–10	
Didiscus	5148	*Trachymeme coerulea*	A	24"	CB	MS-LS	DW TP	8	W	14–21	
Digitalis (Foxglove)	6110	*D. purpurea*	SSB	24-36"	BN	MS-LS	TP	6-8	M	10–18	◗Lt
Dyer's Broom	5502	*Genista tinctoria*	P	3'	dye	MS-F	DS			14–21	
Dyer's Coreopsis	5504	*C. tinctoria*	SSA	30"	CB	MS-F	DS TP DF	6-8	C	4–10	S, rugged
Echinacea	4545ff	*Echinacea spp.*	P	1-3'	BC	MS-LS	TP DW	8-10	W	10–21	◗
Euphorbia	5149	*E. marginata*	A	24-36"	CNB	MS-F	DW TP	3	M	9–14	◗
Flax, Blue	6120	*Linum perenne lewisii*	P	9-12"	B	ES-LS	DS TP DF	6-8	C	21–28	◗
Flax, Scarlet	5150	*Linum grandifl. rubrum*	A	12-16"	B	MS-LS	DS				
Forget-Me-Not	6126	*Myosotis sylvatica*	B,P	6-12"	BCG	Sp-ES	DS	8-10	M	8–30	
Forget-Me-Not, Chinese	5110	*Cynoglossum amabile*	A	18"	B	MS-LS	DW TP	6	M	5–10	

ff=and following

Flowers at a Glance

Name	item#	Botanical Name	APB	height	uses	season	sow	start	temp	days	notes
Four O'Clock	5164	*Mirabilis jalapa*	A	24-36"	BF	ES-LS	TP DW	6-8	W	5–10	
Gaillardia, annual	5165	*G. pulchella*	A	12-15"	BW	MS-F	TP	6-8	W	14–21	Lt
Gaillardia, perennial	6128ff	*Gaillardia spp.*	P	24-36"	BC	MS-F	TP DW	6-8	W	14–21	Lt
Globe Amaranth	5745ff	*Gomphrena globosa*	A	2'	BD	MS-F*	TP	8-12	M	7–30	Dk, Ch5w
Heliopsis (False Sunflwr)	6137	*H. scabra*	P	3-6'	BCS	MS-F	TP DW	10-12	M	21	
Heliotrope	5172	*Heliotropium arborescens*	A	14-18"	FWBC	MS-F	TP	6-8	W	21–28	◗
Hibiscus	6139	*H. moscheutos*	P	4-6'	BNS	MS-LS	TP	5-7	C	10–20	Sc, Sk
Hollyhock	6140ff	*Alcea rosea*	SSB	4-8'	BS	MS-LS	TP DF	8-9	WM	7–21	St
Honesty or Silver Dollar	5762	*Lunaria annua*	B	3'	DN	LS-F	DS TP DF	6	M	14–21	◗
Immortelle	5770	*Xeranthemum annuum*	A	3'	CD	MS-F	TP DS	8	M	7–21	
Impatiens	5175	*Impatiens wallerana*	A	8-14"	WB	ES-F	TP	10	W	7–21	●Lt
Indigo, Japanese	5511	*Polygonum tinctorium*	A	1-2'	dye	MS-F	TP	6-8	W	20–60	
Jacob's Ladder	6160	*Polemonium caeruleum*	P	1'	B	ES	TP	8-10	M	20–25	◗
Job's Tears	5774	*Coix lacryma-jobi*	A	24-36"	DN	F	P	6-8	C	7–14	
Johnny-Jump-Up	6170	*Viola tricolor*	SSP	4-6"	EB	Sp-F*	DS DF		M	12–14	◗
Kiss-Me-over-the-Grdn	5176	*Polygonum orientale*	A	6-7'	NSB	MS-F	DS DF TP	4-6	W	14–20	Cv, St
Larkspur	5177ff	*Consolida spp.*	A	24-36"	BCD	ES-F*	DS TP DF	6-8	C	14–28	◗Cv, Ch1w
Lavatera	5202ff	*L. trimestris*	A	20-36"	BC	MS-F	DS TP	6-8	C	14–21	◗Cv
Lobelia	5215	*Lobelia erinus*	A	4"	BW	ES-F	TP	6-8	M	20	◗S, Lt
Love-in-a-Mist	5782ff	*Nigella spp.*	A	15-24"	BD	MS-F	DS TP	6	M	10–14	
Love-Lies-Bleeding	5217	*Amaranthus caudatus*	A	24-48"	BND	MS-F	TP	5-6	W	7–10	PP
Lupine	6184ff	*Lupinus polyphyllus*	P	36"	B	ES	DS TP DF	6–8	C/M	14–60	◗Sk, PP
Madder	5513	*Rubia tinctorium*	P	4'	dye		TP	8	W	14	
Maltese Cross	6204	*Lychnis chalcedonica*	P	28-40"	BC	MS	TP	8-10	M	7–14	◗
Marigold	5228ff	*Tagetes spp.*	A	8-30"	BCW	MS-F	TP DW	3	W	5–8	Dk
Mignonette	5263	*Reseda odorata*	A	10-15"	F	ES-LS	DW		M	10–14	◗S, Lt
Morning Glory	5270ff	*Ipomoea spp.*	A	8-12'	VS	ES-F	DW TP	3	W	10–21	Sc, Sk, PP
Nasturtium	5280ff	*Tropaeolum spp.*	A	12-16"	BEWC	ES-F	DW TP	3	M	10–14	Cv
Nicotiana	5300	*Nicotiana sylvestris*	A	4-6'	FN	MS-F	DS TP	6-8	W	7–14	Lt
Painted Tongue	5303	*Salpiglossis sinuata*	A	15"	BC	ES-F	TP	6-8	M	14–21	
Pansy	5304ff	*Viola x wittrockiana*	A	6"	BCW	Sp-ES	TP DF?	8-9	C	14–21	◗Dk
Pearly Everlasting	5799	*Anaphalis margaritacea*	P	18-24"	DCB	MS-F	DS TP	6-8	C	10–60	
Penstemon	6210	*P. barbatus*	P	1-3'	C B	MS-LS	TP	8-10	C	18–36	Lt
Petunia	5308ff	*P. x hybrida*	A	4-6"	WBG	ES-F	TP	8	W	7–14	Lt
Phlox, annual	5313ff	*P. drummondii*	A	6-8"	BC	ES-F*	TP DS	8	C	7–14	◗
Phlox, perennial	6234	*P. paniculata*	P	36"	BC	LS-F	TP DF	10-12	C	21–30	◗St
Poppy, annual	5318ff	*Papaver spp.*	SSA	24-48"	BCND	MS-LS	DF DS			14–21	
Poppy, California	5352	*Eschscholzia californica*	A	8-12"	B	MS-LS	DS			14–21	
Poppy, Mexican Tulip	5354	*Hunnemannia fumariifolia*	A	2'	BCND	MS-LS	DS, DF			14–21	
Poppy, Oriental	6254	*Papaver orientale*	P	16"	BND	Sp-ES	DS			7–14	Lt
Portulaca	5356	*P. grandiflora*	A	4-10"	BWG	MS-F	TP DW	6-8	W	7–14	Ch2w, Lt
Queen of the Meadow	6266	*Eupatorium purpureum*	P	5-9'	BNC	LS-F	DS DF	14-21	C	21–28	S, St
Red Hot Poker	6240	*Kniphofia uvaria*	P	32"	BCN	MS-LS	TP	8-10	M	21–28	PP
Rudbeckia, annual	5357ff	*Rudbeckia hirta*	A	24-36"	BCN	ES-LS	TP DF?	6-10	W	14–21	
Rudbeckia, perennial	6269	*Rudbeckia fulgida*	P	24"	BC	MS-LS	TP	6-8	W	7–21	Lt
Sage, Gentian	5361	*Salvia patens*	A	30"	BC	MS-F	TP	12-14	M/W	14–21	S
Salvia	5362ff, 5804	*Salvia spp.*	A	12-18"	BCD	MS-F	TP	10-12	M	21	S
Schizanthus	5365	*Schizanthus pinnatus*	A	18"	BC	MS-F	TP	8	C	7–14	◗S, Dk
Snapdragon	5369	*Antirrhinum majus*	A	30-36"	BC	MS-F*	TP	8-10	C/M	7–14	◗Ch2w, Lt
Sneezeweed	6282	*Helenium autumnale*	P	4-5'	BC	LS-F	TP	6-8	M	14–21	
Statice	5820ff	*Limonium sinuatum*	A	24-30"	DCB	MS-F	TP	8-9	M/W	7–14	S
Statice, German	5848	*Goniolimon tataricum*	P	20"	D	LS-F	TP DS DF	6-8	W	14–21	
Stock	5378ff	*Matthiola incana*	A	12-18"	BC	ES-F*	DS TP	6-8	M	7–14	S
Strawflower	5864ff	*Helichrysum bracteatum*	A	14-40"	DBC	MS-F	TP	7-8	W	7–14	Lt, S
Sunflower	5400ff, 5506	*Helianthus spp.*	SSA	2-12'	CNS	LS-F	DW TP	3-4	M/W	7–14	
Sweet Annie	5884	*Artemisia annua*	SSA	36-60"	FD	LS-F	DF TP	6-8	C	10–21	◗Lt, St
Sweet Pea, annual	5440ff	*Lathyrus odoratus*	A	1-6'	CFSV	MS-LS	DS TP	6-8	C	14–21	Sk, Cv
Sweet Pea, perennial	6296	*Lathyrus latifolius*	P	5-6'	CSV	MS-LS	DS		C	21–28	Sk, Cv
Sweet William	6306	*Dianthus barbatus*	P	18"	FBC	ES	DS TP	6-8	M	7–14	
Thyme, Creeping	6316	*Thymus serpyllum*	P	2-3"	FGB	MS-LS	DS TP DF	8-9	C	14–28	◗Lt
Tithonia	5459ff	*T. rotundifolia*	A	4-6'	BNS	MS-F	TP DW	6	W	7–14	
Venidium	5461	*V. fastuosum*	A	18-24"	B	MS-F	TP	8-10	W	14–21	Lt
Verbascum	6322	*V.* x *hybrida*	P	2-3'	BC	ES	TP	15-20	C	14–21	
Verbena	5462ff	*Verbena spp.*	A	8", 48"	WBC	MS-F	TP	6-8	M	14–21	◗Lt, Ch3w
Veronica	6326	*V. spicata*	P	24-30"	BC	MS-LS	TP	8-10	M	7–21	◗
Weld	5528	*Reseda luteola*	B	4-5'	dye	MS	TP	6-8	M	7–14	S, Lt
Zinnia	5467ff	*Zinnia spp.*	A	20-42"	BC	MS-F	TP DW	3-4	W	7–14	

ff=and following

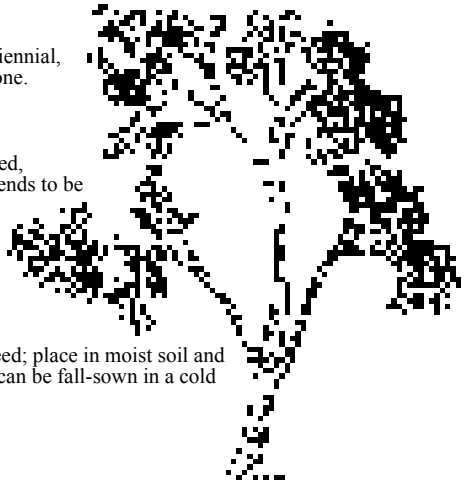
ABP: A=annual, B=biennial, P=perennial, SS=self-sowing
height: typical height at maturity
uses: B=beds and borders, C=cutting, D=drying, dye=dye plant, E=edible, F=fragrance, G=ground cover, N=novel accent, S=screen, V=vining and climbing, W=windowbox, container
season: peak bloom time: Sp=spring, ES=early summer, MS=midsummer, LS=late summer F=fall until frost, F*=fall after frost
sow: DS=direct sow in spring ASAP, DW=direct sow when soil has warmed or after danger of frost has passed, TP=transplant, DF=direct sow in fall
start: suggested number of weeks before transplanting
temp: suggested soil temperatures for good germination: C=cool, 60-65°, M=moderate, 65-70°, W=warm, 70-85°
days: number of days to seedling emergence
notes: ◗=can grow in partial shade, ●=can grow in full shade or part shade. (The rest need sun.) Lt=needs light to germinate, S=surface sow, Cv= cover seed, Dk=needs darkness to germinate, Sc=scarify seed with sandpaper or emery board, Sk=soak seed 12-24hrs, St=stratify seed; place in moist soil and freeze or refrigerate or alternate between the fridge and freezer, Ch=chill seed, sometimes specifies duration (d=days, w=weeks) and temperature, PP=use peat pots

Cultural Information and Planting Instructions for Herbs

Name	item#	Botanical name	ABP	height	uses	part	sow	temp	days	notes	cover	sun
Anise	4406	*Pimpinella anisum*	A	1-3'	S B M	S	DS	M	7-28		L	PF
Anise Hyssop	4407	*Agastache foeniculum*	P Z4	2-3'	B M	L F	DW TP	W	7-14	Lt	P	FP
Arnica	4409	*A. chamissonis*	P Z4	20"	M O	F	TP	C		St		F
Ashwagandha	4411	*Withania somnifera*	TP/A	2-3'	M	R	TP	M	7-21	Lt	N	FP
Astragalus	4412	*A. membranaceus*	P Z4	18-48"	M	R	DS TP	M	7-28	Sc Sk	L	F
Basil	4414ff	*Ocimum basilicum*	TA	8-24"	S E M	L	TP DW	W	4-10	W	R	F
Basil, Sacred	4464	*Ocimum sanctum*	TA	18-24"	S M	L	TP DW	W	4-10		R	F
Bergamot	4481	*Monarda fistulosa*	P Z3	3-4'	B M O	L	DS DF	M	7-14	Lt	N	FP
Blessed Thistle	4484	*Cnicus benedictus*	A	1-2'	M	F L	TP DS	M	7-21	St	L	F
Borage	4491	*Borago officinalis*	SSA	2-3'	E M O	F L	DS DF	C	7-14		P	FP
Calendula	5079ff	*Calendula officinalis*	SSA	18-24"	M O	F	DS	M	4-14		R	FP
Caraway	4507	*Carum carvi*	SSB	2'	S E	S L	DS	C				F
Catnip	4509ff	*Nepeta cataria*	P Z3	1-2'	M B	L	DS DF	M	7-10	Lt	N	F
Chamomile	4511	*Matricaria recutita*	SSA	8-18"	B M	F	DS	M	10-14	Lt	N	F
Chervil	3044ff	*Anthriscus cerefolium*	SSB	12-18"	S	L	DS	W	7-14	Lt	L	P(F)
Chives	4512	*Allium schoenoprasum*	P Z3	1-2'	S M E	L F	DS	C	7-14		L	FP
Cilantro	4515ff	*Coriandrum sativum*	A	1-2'	S E	L S	DS	C	7-14		R	F(P)
Cumin	4522	*Cuminum cyminum*	A	1-2'	S M	S	TP	M	7-14	PP	F	
Dill	4530ff	*Anethum graveolens*	SSA	2-5'	S M O	S L	DS	W	7-21		R	F
Echinacea	4545ff	*Echinacea spp.*	P Z3	1-3'	M O	R F	TP DW	W	14-21	St Lt	L	F
Elecampane	4550	*Inula helenium*	P Z3	5-8'	M O	R	TP	M	7-10	Lt	N	FP
Fennel	4556ff	*Foeniculum vulgare*	TP/A	1-3'	S M E	L S	DS	M	7-14		R	F
Feverfew	4572	*Tanacetum parthenium*	P Z4	18-30"	M O	L	TP DS	M	7-14	Lt	N	FP
Garlic Chives	4577	*Allium tuberosum*	P Z4	12-18"	S E	L F	DS	C	7-14		L	FP
Horehound	4580	*Marrubium vulgare*	P Z3-4	20-24"	M C	L	TP DS	M	10-21		P	F
Hyssop	4582	*Hyssopus officinalis*	P Z3-4	12-18"	M O	L F	TP DF	C	7-21		R	FP
Joe Pye Weed	6266	*Eupatorium purpureum*	P Z3-4	5-9'	M O	R	DS DF	M	14-21	St Lt	N	P
Lady's Mantle	4584	*Alchemilla mollis*	P Z3	12-18"	M O	L	TP	M	21-30	St Lt	N	FP
Lavender	4585ff	*Lavandula angustifolia*	P Z5	2-3'	M O	F L	TP DF	W	14-28	St Lt	P	F
Lemon Balm	4588	*Melissa officinalis*	P Z4	1-2'	B M S	L	TP DS	M	7-14	Lt	N	FP
Lemon Mint	4589	*Monarda citriodora*	SSA	2-3'	B M	L	DS	M	7-21		R	P(F)
Lemongrass	4587	*Cymbopogon flexuosus*	TP/A	3-4'	S B M	L	TP	W	21-42		L	FP
Lovage	4592	*Levisticum officinale*	P Z4	3-6'	S M	L	DS DF	M	10-21		R	F(P)
Marjoram	4616	*Origanum majorana*	TP/A	1-2'	S	L	TP	M	7-21	W	N	F
Marshmallow	4619	*Althaea officinalis*	P Z4	4-6'	M O	R L	DS DF	C	14-21	St	L	FP
Milk Thistle	4630	*Silybum marianum*	SSA	3-5'	M E	S F L	DS DF	M	7-14	Lt	L	F
Mint	4632	*Mentha spicata*	P Z4	12-18"	S B M	L	TP DS	M	7-14	Lt	N	FP
Motherwort	4639	*Leonurus cardiaca*	P Z3	2-4'	M	L F	DS DF	M	7-21	Lt	L	F
Nettle, Stinging	4644	*Urtica dioica*	P Z2	3-6'	E M	L	DS	M	10-14	Lt	R	FP
Oregano	4648	*Origanum heracleoticum*	P Z4	6-12"	S M	L	TP	M	7-21	Lt	N	F
Parsley	3158ff	*Petroselinum crispum*	B Z3	8-12"	S E	L	DS DF	M	14-60	Sk	R	FP
Pennyroyal	4651	*Mentha pulegium*	P Z5-6	8-12"	M O	L	TP	C	10-14		N	FP
Pleurisy Root	6034	*Asclepias tuberosa*	P Z3	18-30"	M O	R	DW	M	14-28	St	L	F
Rosemary	4657	*Rosmarinus officinalis*	TP Z7	3-5'	S M O	L	TP	M	10-42	St Lt	P	F
Rue	4659	*Ruta graveolens*	P Z3-4	2-3'	M O	L	DS TP	M	10-21		R	FP
Sage	4664	*Salvia officinalis*	P Z4	2-3'	S B M	L	TP DS	W	10-21	Lt	P	F
Sage, White	4666	*Salvia apiana*	P Z6	2-3'	M C	L	TP	W	14-28	W	L	F
Sagebrush, Silver	4668	*Artemisia ludoviciana*	P Z4	1-3'	M C	L	DW	M				
St Johnswort	4686	*Hypericum perforatum*	SP Z3	1-3'	M	F L	DS DF	M	14-28	St Lt	N	F
Salad Burnet	4669	*Sanguisorba minor*	P Z4	1'	E M	L	TP	C				F
Savory, Summer	4672	*Satureja hortensis*	A	12-18"	S M	L	DS	W	7-14	Lt	R	F
Savory, Winter	4674	*Satureja montana*	P Z3	6-12"	S M	L	TP	M	10-21	Lt	N	F
Shiso	4680	*Perilla frutescens*	TA	2-3'	S M O	L	TP	W	7-14	Sk St Lt	L	FP
Skullcap, Baikal	4681	*Scuttelaria baicalensis*	P Z4	1-2'	M O	R	TP	M	14-21	St	P	F
Skullcap, Virginia	4682	*Scuttelaria lateriflora*	P Z4	1-2'	M O	L F	TP	M	14-21	St	P	P
Spilanthes	4683	*Spilanthes oleracea*	TA	8-12"	M O E	F L	TP	W	4-10		P	F
Stevia	4684	*Stevia rebaudiana*	TP/A	24"	S	L	TP DW	W	7-21	Lt	L	FP
Sweet Woodruff	4698	*Galium odoratum*	P Z5	6-8"	O M S	L	DS DF	C	28-200		P	Sh
Thyme	4687	*Thymus vulgaris*	P Z4	6-12"	S M	L	TP	C	14-28	Lt	N	F
Valerian	4690	*Valeriana officinalis*	P Z4	3-5'	M O	R	DS	M	10-21	St	L	FP
Vervain	4692	*Verbena hastata*	P Z4	5-6'	M O	R	TP	M	21-28	St Lt	N	F
Yarrow	4699	*Achillea millefolium*	P Z2	1-2'	M O	F L	DS DF	W	10-14	Lt	N	F

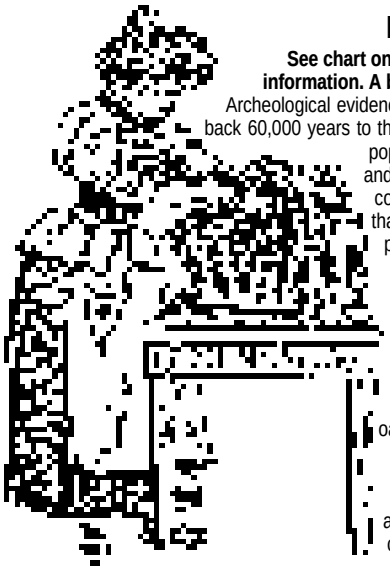
ff=and following

ABP: A=annual, B=biennial, P=perennial, TA= tender annual, SSA=self-sowing annual, SSB=self-sowing biennial, TP=tender perennial, TP/A=tender perennial grown as annual, SP=short-lived perennial, Z=hardiness zone.
height: typical height at maturity.
uses: S=seasoning, B=beverage, M=medicine, O=ornamental, E=edible, C=ceremony.
part: part that is used: S=seed, L=leaf, F=flower, R=root.
sow: DS=direct sow in spring ASAP, DW=direct sow when soil has warmed or after danger of frost has passed, TP=transplant, DF=direct sow in fall. Nearly any herb can be started indoors and transplanted, but this tends to be more work; TP means this method is strongly suggested for best results. Many perennials can be started in early summer indoors or out; they take several years to mature anyway, what's a few months?
temp: suggested soil temperatures for good germination: C=cool, 60-65°, M=moderate, 65-70°, W=warm, 70-85°.
days: number of days to seedling emergence.
cover: L=cover lightly, P=pat down gently, R=rake or scuffle into soil, N=no, don't cover.
notes: Lt=needs light to germinate, Sc=scarify seed with sandpaper or emery board, Sk=soak seed 12-24 hrs, PP=start in peat pots and take care not to disturb root in transplanting, W=water sparingly, St=stratify seed; place in moist soil and freeze or refrigerate or alternate between the fridge and freezer. Nearly any herb requiring stratification can be fall-sown in a cold frame—the winter does the work for you!
sun: F=full sun, P=part sun, FP=prefers full but tolerates part, PF=prefers part but tolerates full, Sh=shade, P(F)=prefers part, tolerates full only in cool or moist areas, F(P)=prefers full sun, needs part shade in hot climates.



HERBS

See chart on facing page for uses and cultural information. A botanical index appears on p. 103.



Archeological evidence dates the medicinal use of herbs back 60,000 years to the Neanderthals. 85% of the world's population employ herbs as medicines, and 40% of pharmaceuticals in the U.S. contain plant-derived materials. Fewer than 10% of the 100,000 known higher plant species have been investigated yet for their medicinal components. Interest in traditional herbal home remedies continues to grow. Consult herbals for more detailed information.

#**2300** Takinagawa Burdock**,** #**5087** Resina Calendula, as well as oats, mammoth red clover, and alfalfa in the cover crops section also have medicinal uses. Some medicinal herbs such as black cohosh are available as rootstock from our Trees catalog. Some herbs are customarily grown from divisions or cuttings because they cannot come true from seed, such as scented thymes and flavored mints; some require fall sowing of fresh seed, such as sweet cicely and angelica.

To use fresh herbs in cooking, triple the dried quantity called for in a recipe. Drying herbs at home is not difficult. Whole leaves retain their flavor longer than those crumpled or powdered. The flavor should last at least a year.

Statements about medicinal use of plants have not been evaluated by the FDA, and should not be used for the diagnosis, treatment, cure or prevention of any ailment. Before using or ingesting any medicinal plant, consult a healthcare practitioner familiar with botanical medicine.

4406AN Anise *Pimpinella anisum* Annual bears seeds with subtle licorice overtones and a spicy warming flavor. Drunk as a tea in the Middle East. Crush seeds to release full flavor. Used in baking, an essential ingredient in Springerle. Anise helps ease indigestion, gas and colic, also relaxes dry tight coughs. Plant in average-to-rich well-drained warm soil in full sun after danger of frost. Sets small white umbel flowers in July which ripen their seed in August and September. 1–3' tall. ~200 seeds/g. ②

A=0.5g, $1.00 **B**=2g, $2.40 **C**=8g, $5.00 **D**=40g, $12.00

4407AO Anise Hyssop OG *Agastache foeniculum* Bushy midwestern native permeates the air with sweet licorice fragrance. An outstanding insectary plant, its long-blooming nectar-laden purple flowers attract bees and parasitic wasps, butterflies and hummingbirds. Anise-scented foliage and flowers delightful as a tea or culinary seasoning, or filler in mixed bouquets. The tea induces sweating and strengthens the heart, was used also for fevers, colds, and by Native Americans as a cough medicine. Sow or transplant 1–1 1/2' apart in well-drained warm loam. Perennial can grow 3' tall, 2' wide. Not related to anise or hyssop. Zone 4. MT-certified. ~2,600 seeds/g. ①

A=0.2g, $1.10 **B**=1g, $2.40 **C**=5g, $5.50 **D**=25g, $14.00

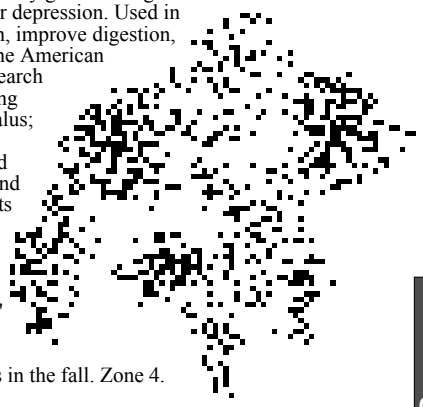
4409RO Arnica Chamissonis OG *A. c.* Meadow arnica is a native American species that will grow successfully in low-elevation gardens. *A. chamissonis* has been tested and is generally accepted as a substitute for the official European form *A. montana.* Use the yellow flowers at full flowering either fresh or dried, in compresses and salves as an external remedy on unbroken skin to reduce swelling and bruising caused by traumatic injury, and on arthritic joints. 20" perennials yield well with multiple flower stalks blooming for most of the early season. Stratify seed and give it light to germinate. Start indoors and transplant into humus-rich soil in full sun. Zone 3. CCOF-certified. ~2,500 seeds/g. ①

A=0.02g, $1.20 **B**=0.1g, $3.00

4411WO Ashwagandha OG *Withania somnifera* Supposedly its name in Sanskrit means "the vitality of the horse" and it is said to impart such energy; *somnifera* promotes sleep. An herb of wide value, generally known as the ginseng of Ayurvedic medicine. Upright shrub exceeds 2' with inconspicuous green-to-yellow flowers ripening to red berries. Roots are dried at the end of the growing season and used internally (other plant parts are toxic if eaten). One of the best rejuvenators, especially good for the elderly, it tones without overstimulating and can be used in all conditions of weakness and chronic debilitation. Needs warmth and light to germinate. Sow indoors in the spring and transplant out in June, prefers dry stony soil in sun or partial shade. Perennial in Zone 10, grown as an annual here in the north. OT-certified. ~1,000 seeds/g. ①

A=1g, $1.40 **B**=4g, $3.00 **C**=12g, $8.00

4412TO Astragalus OG *A. membranaceus* Safe effective adaptogenic tonic to use daily throughout the year, aiding digestion and promoting immune system health (*wei qi*). Called *huang qi* in Chinese and Chinese Milk Vetch Root in English. Especially good for vegetarians. Also used in cases of exhaustion, food allergy, or depression. Used in China to increase assimilation, improve digestion, and eliminate excess fluid. The American Cancer Society published research showing immune strengthening among patients taking astragalus; other clinical research shows antibacterial effects, increased white blood cell production and decreased negative side effects for patients undergoing chemo and radiation therapies. Small pea-like flowers on upright stems with vetch-like leaves. 1 1/2–4' perennial. Plant in deep well-drained slightly alkaline soil. Harvest 4- to 6-year-old roots in the fall. Zone 4. OT-certified. ~50 seeds/g. ①



A=.5g, $1.20 **B**=3g, $3.00 **C**=9g, $9.00

BASIL *Ocimum basilicum*

Indispensable culinary herb, in cultivation for more than 3,000 years. Labeled the "insanity plant" by ancient Greeks and Romans, but declared the Royal Herb of France in the 16th century and named 2003 Herb of the Year. The Taiwanese call it 'nine-storied tower.' Basil is by far our most popular herb, the various kinds selling over 15,000 packets in 2011.

Direct seed when soil warms in late spring or transplant after danger of frost in well-drained moderately rich soil. Young seedlings will damp off if heavily watered during cool cloudy weather. Water sparingly at first. Use row covers to enhance early season vigor and speed maturity. Thin to 8–12", top mature plants to induce branching and increase total yield. Harvest before plants blossom. Absolutely intolerant of frost, damaged by temperatures in the 30s. Research from Southwestern University in Texas showed that basils in low nitrogen soils had less vigorous growth but higher contents of polyphenic compounds that may help prevent many diseases and cancers.

Where so indicated our varieties have been sampled and found to be fusarium-free. While not a guarantee that the entire lot is fusarium-free, a negative test improves the odds. No samples were taken for varieties not so indicated.

~600 seeds/g.

See also #**6438** Multicolored Red Rubin Basil.

Sweet (70 days) The heaviest-yielding variety, recommended for drying, all-around great eating, and large-scale pesto production. We sold more than 5,400 packets last year of these two strains of Sweet basil.

4414SB Sweet Genova strain. Tested for fusarium. ②⑤

A=4g, $1.10 **B**=28g, $4.00 **C**=112g, $10.00 **D**=336g, $25.00

4415WO Sweet OG Tested for fusarium. PA, WA-certified. ②⑤

A=4g, $1.50 **B**=28g, $5.00 **C**=112g, $15.00 **D**=336g, $28.00

4418GB Genovese (70 days) The choice of many connoisseurs for making pesto. Also called Perfumed Basil. Leaves are slightly smaller and finer than Sweet Basil with more aroma and potency. ②

A=2g, 90¢ **B**=10g, $2.00 **C**=40g, $5.50 **D**=160g, $12.00

4422MB Mammoth Lettuce-leaf type has very large ruffled leaves suitable for stuffing. Flavor similar to sweet basil. ②

A=1g, $1.10 **B**=7g, $2.60 **C**=28g, $8.00 **D**=84g, $15.00

4430SG Spicy Globe *O. b. minimum* (70 days) Marvelous little basil grows to about 8" and maintains a compact mound of light green leaves and white flowers. Its leaves are small, thin and strongly scented. Great as an ornamental border, in a windowbox, or as an indoor potted plant that can be snipped for culinary use. ②

A=0.5g, $1.30 **B**=5g, $2.50 **C**=15g, $6.00 **D**=60g, $15.00

4436AB Anise Originally from Persia. Vigorous mulberry-tinted basil with anise fragrance makes highly decorative tall bushy plant. Slow to bolt. Great in Italian tomato sauces. Also used in Thai and various Mediterranean cuisines. ②

A=0.5g, $1.10 **B**=7g, $2.60 **C**=28g, $6.00 **D**=84g, $14.00

4441RO Aromato OG Dramatic bicolor ornamental. Broad bushes of mottled purple and green grow to 2 1/2', providing a focal point. Starts purple and takes on a greener coloration. Pleasing anisey flavor and scent intensify when it is dried. Makes a great herbal vinegar. AGRIOR-certified. ③

A=0.5g, $1.30 **B**=3g, $2.50 **C**=12g, $6.00 **D**=36g, $15.00

4442CM Spice Boys Cinnamon Similar vigorous growth habit to Anise Basil, but with a purplish veining on its leaves, and a distinctive cinnamon scent. Use in Middle Eastern or Greek cuisine. ⑤

A=0.5g, $1.30 **B**=4g, $2.50 **C**=16g, $8.50 **D**=48g, $24.00

Basil continued

4448LO Lemon OG *O.b. citriodorum* Basil often used in bouquets for its intense lemon fragrance. Not as vigorous as # **4449** Sweet Dani and more vulnerable to blight, but has a stronger truer lemon flavor. Great for flavoring fish and fowl dishes. Native to Thailand and Southeast Asia and featured in those cuisines. CCOF-certified. ③
A=0.5g, $1.20 **B**=4g, $2.50 **C**=16g, $6.00 **D**=48g, $14.00

4449SD Sweet Dani Lemon (65 days) 1998 AAS for its extraordinary vigor which manifests even in the seedling stage and continues through the summer. Tall upright plant reaching almost 30" is 2–3 times as vigorous as #**4448** Lemon basil with heavier yields of large light green leaves. Does not need coddling. Tested for fusarium. ⑤
A=0.5g, $1.50 **B**=1.5g, $2.70 **C**=4.5g, $7.00 **D**=13.5g, $18.00

4450BB Mrs. Burns Lemon (64 days) Chosen for its intense lemony fragrance. Medium-sized bright green leaves. Heirloom variety grown for 60 years in southeastern New Mexico, first offered commercially by Native Seeds/Search, has now achieved nationwide fame. ②
A=0.5g, $1.20 **B**=4g, $2.80 **C**=20g, $7.00 **D**=60g, $16.00

4453LO Lime OG *O. americanum* (65 days) Imparted a robust lime fragrance to our patch. More vigorous than lemon basil, darker green leaves with a strong lime flavor. CCOF-certified. ③
A=0.25g, $1.30 **B**=1g, $3.00 **C**=4g, $5.00 **D**=16g, $9.00

4456RR Red Rubin (78 days) We've gone back to the original strain to reduce the prevalence of green-leaf throwbacks. More vigorous than Purple Ruffles. Highly ornamental dark purplish-bronze foliage. A salad of purple basil leaves and yellow tomatoes provides a stunning color contrast. Tested for fusarium. ⑤
A=0.5g, $1.40 **B**=2g, $3.20 **C**=10g, $7.50
D=30g, $20.00

4461PR Purple Ruffles (85 days) Deep purple plants with serrated and crinkled leaves for striking visual contrast in the herb garden. Imparts attractive color to basil vinegars. Not a vigorous grower in our climate but will reach a height of 18" in peak summer heat. Some plants will have green foliage and in some the green will be mixed with purple. AAS. PVP.⑤
A=0.25g, $1.40 **B**=1g, $3.20 **C**=4g, $7.00
D=12g, $18.00

4464BO Sacred OG *O. sanctum* (100 days) Native to India and used in Indian as well as Thai cuisine. Spicier than other basils and quicker to go to seed, but still usable when covered with purple flowers. Strengthens the immune system and increases oxygen uptake in the brain. Used in Ayurvedic medicine as a poultice on acne, ringworm, eczema and insect bites. Stands a bit more cold than other basils. OT-certified. ①
A=0.1g, $1.20 **B**=1g, $2.50 **C**=7g, $7.00
D=21g, $15.00

4470TB Thai (60 days) Lends the distinctly strong licorice-anise basil flavor to Thai food. An attractive 12–18" fine-leaved plant with purple stems, seed heads and flowers. Good container plant as well. ②
A=0.5g, $1.20 **B**=4g, $2.80
C=12g, $5.50 **D**=36g, $12.00

4481WO Wild Bergamot OG
Monarda fistulosa Our native wildflower species of the familiar bee balm is a great addition to the perennial border in light dry alkaline soils. The 3–4' plants bear aromatic lavender-fringed blossoms highly attractive to pollinators. Leaves impart pungent aroma to teas, potpourri, meats and beans. Traditionally used as an aromatic stimulant to improve digestion and increase perspiration. Native Americans employed it internally to combat colds and flus and externally to calm skin eruptions. Zones 3-9. OT, MOFGA-certified. ~2,000 seeds/g. ①
A=0.1g, $1.20 **B**=0.4g, $2.80 **C**=2g, $6.00

4484HO Blessed Thistle OG *Cnicus benedictus* Also known as St. Benedict Thistle, Holy Thistle and Sacred Thistle. A hairy annual featuring branched bristly red stems, long spiny leaves with sinuate margins, and spine-encircled yellow flowers, blooming from July through September. Its leaves, flowers and roots are edible, the latter boiled as a vegetable. Used as a liver tonic or digestive bitter; said to stimulate gastric and bile secretions, to improve mother's milk, and to rectify hormonal imbalances. Originally from the Mediterranean, it prefers warm dry sunny locales with poor soil. *May be emetic in large doses.* Grows 2' tall and 1–1 1/2' wide. ICS-certified. ~40 seeds/g. ①
A=0.25g, $1.50
B=1g, $3.00
C=4g, $10.00

4491BO Borage OG *Borago officinalis* (55 days) Gloria Seigars suggests it makes a great border for the vegetable garden where the dense plants smother weeds and attract bees. Bears many small flowers which open blue, turn purple and then pink and make colorful additions to salads. Enjoy very young leaves on a hot day to benefit from their cooling properties. Can be used in cough syrups or frozen in ice cubes to lend cucumber flavor to cold drinks. A nourishing tea for nursing mothers. Seeds a good source of GLAs. Bushy 2' annual likes sun, prefers moist well-drained soil, will self sow. Young plants are easy to move around. Survives light frosts. CCOF-certified. ~50 seeds/g. ③
A=0.5g, $1.10 **B**=4g, $2.80 **C**=16g, $8.00 **D**=80g, $24.00

4507CW Caraway *Carum carvi* Feathery-leaved 2' biennial grown primarily for its seeds which season soups, stews, breads and pastries. Its leaves are also edible, though milder than the seeds. Direct seed either in early spring or late summer for seeds the second year. Likes full sun, sandy well-drained soil. Will self-sow. ~350 seeds/g. ②
A=0.5g, $1.00 **B**=7g, $2.20 **C**=28g, $5.00
D=112g, $11.00

4509NP Catnip *Nepeta cataria* (85 days from transplanting) "If you set it, the cats will get it; if you sow it, they won't know it." Hardy perennial, will self-sow once established. Likes rich or sandy soils, tolerates poor soil and drought. Calms mild stomach disorders, produces restful sleep and relieves fever when added to teas. Tovah Martin writes that rats are reputed to despise it, so it is sometimes used as a companion plant for melons and squashes. Researchers at Iowa State University claim catnip is a top-notch mosquito repellant. They suggest crushing catnip leaves then rubbing on the skin is several times more effective than using DEET. Zones 3–8. ~1,400 seeds/g. ②
A=1g, $1.00 **B**=7g, $2.50
C=28g, $6.00 **D**=112g, $12.00

4510LC Lemony Catnip *N. c. citrodoria* With a lemon taste that even children will love, this catnip makes a pleasurable relaxing tea. Cats are not as attracted to it as to the generic form, so you might be able to keep some for yourself. The 3' perennial has a pleasant lemon scent. Zones 3-8. ~1,500s/g. ②
A=0.5g, $1.20 **B**=4g, $3.00 **C**=28g, $12.00 **D**=112g, $40.00

Bodegold Chamomile *Matricaria recutita* (65 days) Crop failure; *not available in 2012.*

4512CO Chives OG *Allium schoenoprasum* (80 days) Hardy perennial. 1–2' hollow grasslike leaves enhance any dish with their subtle onion flavor, providing a fine treat in very early spring. Lilac-colored flowers bloom in June and July, can be eaten or enjoyed in arrangements fresh or dried. Used in Asia as a remedy for colds and flu. For best production, grow in well-drained soil and divide clumps every few years. However, nearly indestructible even with complete neglect in extreme conditions. Can be brought inside for the winter. Zone 3. ID, CCOF-certified. ~900 seeds/g ①③
A=0.5g, $1.20 **B**=7g, $2.80
C=28g, $7.50 **D**=112g, $22.00

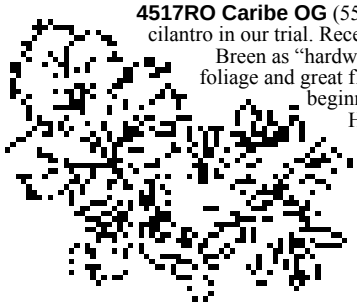
…I am constantly thinking of all our people—unemployed and employed alike—of their human problems, their human problems of food and clothing and homes and education and health and old age. You and I agree that security is our greatest need—the chance to work, the opportunity of making a reasonable profit in our business—whether it be a very small business or a larger one—the possibility of selling our farm products for enough money for our families to live on decently. I know these are the things that decide the well-being of all our people.…

…We are a rich Nation; we can afford to pay for security and prosperity without having to sacrifice our liberties into the bargain.…
Fireside Chat 4/14/38

CILANTRO *Coriandrum sativum*

Useful for its fresh green foliage, its edible flowers which attract many beneficial insects, and coriander—its dried seeds. Produces leaves in generous quantity, essential flavoring in Indian, Chinese, Southeast Asian, North African and Latin American cooking. Accentuates soups, salsas and bean dishes like no other herb. Annual grows to 2' with whitish blooms. Make succession plantings in average well-drained soil and keep watered for lushest leaf production. In warm locations will stand longest as a fall crop. Thin early. **~60 seeds/g.**

Cilantro OG (55 days) *No longer available*; we recommend #**4517**.



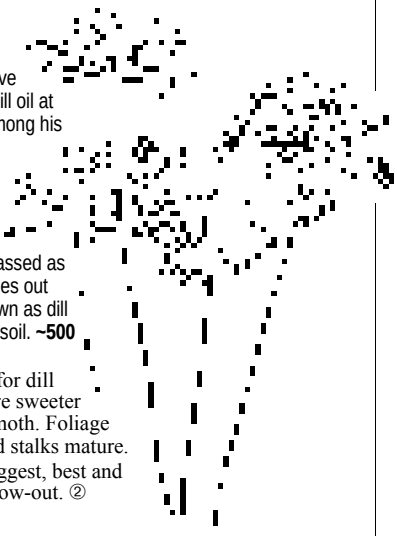
4517RO Caribe OG (55 days) The best of the ten strains of cilantro in our trial. Received high marks from trialer Heron Breen as "hardworking with lots of excellent eating foliage and great flavor." Longstanding; was barely beginning to flower on July 9. Barbara Hunter-Spencer of Windrose Farm in Paso Robles, CA, lauds its ability to develop strong baby seedlings. SKAL-certified. ④

A=1g, $1.00
B=4g, $2.50
C=28g, $5.00
D=112g, $15.00
E=448g, $48.00

4522CU Cumin *Cuminum cyminum* (100-115 days) After black pepper, the most widely used spice in the world. This is the culinary cumin whose seeds are important in flavoring Mexican and Indian cuisine and are said to aid digestion. Foliage is fragrant and ferny, somewhat like dill, but unlike dill, plants grow only 6–12". Seeds take a long time to mature so should be started indoors in cold climates. Our thanks to Lee Cooper for suggesting that we spice up our herb selection with cumin. ~300 seeds/g. ②

A=0.5g, $1.00 **B**=1g, $2.00 **C**=6g, $4.00 **D**=30g, $6.00

DILL *Anethum graveolens*



Name derived from the Norse *dilla*, meaning 'to lull,' as the plant is said to have soothing properties. Charlemagne used dill oil at banquets to stop hiccups and belching among his guests. The Puritans chewed dill seed to keep their stomachs from grumbling during long church services. Best known in this country for pickling, but essential for Russian, Polish and Hungarian cuisine. Annual, sometimes classed as biennial, grows to 4'. Upright plant branches out from single stalk; the feathery leaves known as dill weed. Likes well-drained moderately rich soil. **~500 seeds/g.**

Bouquet Bouquet is usually grown for dill weed production because its leaves are sweeter and more refined than those of Mammoth. Foliage should be harvested early, before seed stalks mature.

4530BU Bouquet (55 days) The biggest, best and ferniest strain of the four in our lot grow-out. ②

A=4g, 90¢ **B**=28g, $2.50
C=224g, $11.00 **D**=448g, $18.00

4531BO Bouquet OG (55 days) CCOF-certified. ③

A=2g, $1.00 **B**=8g, $2.20 **C**=40g, $5.00 **D**=200g, $12.00

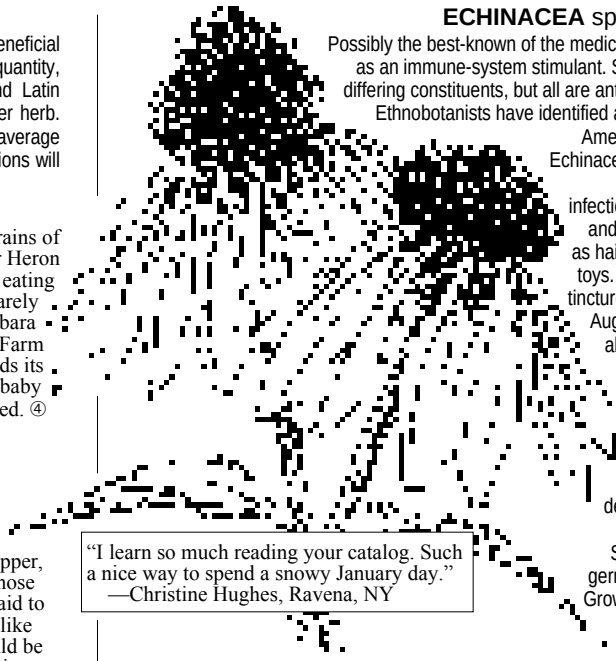
4536FL Fernleaf (55 days) 1992 AAS. A dwarf variety suitable for small gardens or patio containers, Fernleaf grows only half as tall as other varieties and is very slow to go to seed. As of September, most of our May planting has not yet bolted, and its abundant piquant foliage is still suitable for harvesting. Multibranching plants spread 18–24". PVP. ⑤

A=0.5g, $1.50 **B**=1.5g, $2.80
C=4.5g, $5.00 **D**=13.5g, $14.00

4542MM Mammoth Variety generally grown for its seeds. Can also be used as dill weed, but the foliage is slightly darker, coarser and stronger-tasting than that of Bouquet. Otherwise, differences between the two in plant height and habit are barely discernible. ②

A=4g, 90¢
B=28g, $2.50
C=224g, $11.00
D=448g, $18.00

ECHINACEA spp.



Possibly the best-known of the medicinal herbs, widely used as an immune-system stimulant. Species contain slightly differing constituents, but all are antibacterial and antiviral. Ethnobotanists have identified at least 14 native North American nations that used Echinacea for similar purposes: sore throat, toothache, infection, wounds, snake bite and skin disorders, as well as hair combs and children's toys. Joanna Linden likes to tincture flowers and leaves in August, and use the same alcohol to tincture seeds and third-year roots in October. A wonderful garden perennial: late summer blooms attract butterflies and make good cutflowers; dew collects in the spiral mandala coneheads. Start indoors at 70–75', germinates in 15–20 days. Grow on at 60–65'. Set out 18-24" apart. Zones 3–10. **~250 seeds/g.**

"I learn so much reading your catalog. Such a nice way to spend a snowy January day."
—Christine Hughes, Ravena, NY

4545NL Narrow-Leaved *E. angustifolia* Smallest and least vigorous of all the Echinacea species, but the one with the most tongue-tingling properties. Small taproots can be difficult to harvest. Overharvesting in the wild by zealous collectors has endangered this species, so cultivate some for your use. Short rose-pink petals, spreading and toothy. Tapered hairy leaf. 6–20" tall. Native to prairies west of the Mississippi, Saskatchewan to Texas. Herbalist Richo Cech suggests stratifying seeds for 30 days. ②

A=0.5g, $1.30 **B**=1.5g, $3.20 **C**=6g, $6.50 **D**=24g, $18.00

4547CO Purple Coneflower OG *E. purpurea* Large, showy, vigorous and hardy, a popular garden perennial since the early 1700s. Large fibrous roots are easy to harvest. Though not a mix, it shows colorful flower variations from rose to lavender to purple. Long downward-curving petals around large spiny centers. Broad toothed leaf. Easy-to-grow, 2–4' tall, native to a wide range of habitats, from Appalachian woods to midwest prairies. Hardy even through the bad winter of 2004. MOFGA, OT-certified. ①②

A=1g, $1.20 **B**=4g, $2.80 **C**=16g, $6.50 **D**=48g, $15.00

4549EC Elecampane *Inula helenium* Also known as Horseheal, Wild Sunflower and Elf Dock. Large dramatic plant is an excellent lung tonic. Important to the ancient Greeks, said to have sprung from the tears of Helen of Troy. Mucilaginous root relaxes lungs and helps clear mucus from them, calms cough. Antibacterial and antifungal, also used for asthma, bronchitis, cough and flu, especially in children. Helpful for scabies, herpes and other skin disorders (an old name is Scabwort). Plant in heavy moist well-drained loam with generous helpings of compost. Dig root in mid fall. 5–8' perennial with 2–3" bright yellow rayed flowers, blooming May to August. Zone 3. ~1,600 seeds/g. ①

A=0.1g, $1.40 **B**=0.3g, $3.00 **C**=1.2g, $6.50 **D**=3.6g, $12.00

FENNEL *Foeniculum vulgare*

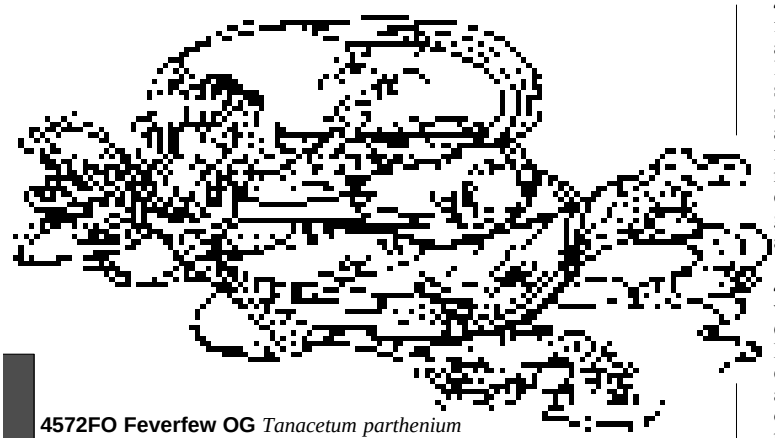
Genus gets its name from the Latin for hay, referring to the smell of the foliage. Perennial grown as an annual with a licoricey taste. Tender stalks and leaves are good for relishes, salads, and garden munches; leaves and seeds excellent with fish. Seeds used in sweets, baked goods & beverages. Bread becomes impregnated with a faint licorice scent when seasoned with fennel. Fennel prefers rich well-drained slightly limey soil. Direct seed in late April or early May, do not allow to dry out.

4556ZF Zefa Fino (55 days) Bulbing type. 3' with edible blue-green stems and feathery green leaves. Bred at the Swiss Federal Research Station. When compared with some of the traditional Italian varieties, it proved much more resilient under stress and much less likely to bolt. A spring planting will stand till late summer. We advise a 2nd sowing in July for crisp juicy bulbs till October. Thin to approximately 12" apart in 18" rows; overcrowding induces premature bolting. No new crop. Seed in short supply; *order early.* ~200 seeds/g. ③

A=0.5g, $1.20 **B**=3g, $3.00

4567BO Bronze OG (60 days) Slow grower with very thin stems valued for its striking feathery bronze foliage. Delicious and decorative. An intriguing addition to mesclun and to flower beds. OT-certified. ~375 seeds/g. ①

A=0.2g, $1.20 **B**=0.6g, $2.50 **C**=3g, $6.00 **D**=30g, $15.00



4572FO Feverfew OG *Tanacetum parthenium*
Strongly scented bushy plant with beautiful daisy-like white blooms good in bouquets. A tea from the chrysanthemum-like leaves was traditionally used as a relaxant. Chewing regularly on a bitter leaf or two is said to prevent migraines. Sow indoors, set out in average well-drained soil when seedlings have four true leaves. Perennial to Zone 4, maybe 3. Will self-sow. WA-certified. ~5,000 seeds/g. ①③
A=0.1g, $1.40 **B**=0.4g, $3.20 **C**=2g, $8.00 **D**=8g, $24.00

4577GC Garlic Chives *Allium tuberosum* (90 days) Also called Chinese chives or Chinese leeks. Known as *jiu cai* in China. 1' herb grows like chives, but has flat strap-like leaves that taste like garlic and can be used as a garlic substitute in salads and sautéed vegetables. White flowers may be eaten, are long-lasting in bouquest and good in dried arrangements. Has been used to warm the kidneys and stomach, to treat urinary incontinence and impotence. Sow thinly in spring, harvest sparingly till plants are established, after that they are vigorous and self-sowing. Seed is very short-lived; order only enough for one year. Perennial, but protect in cold areas. Easier than chives to bring indoors for winter. Zone 4. ~210 seeds/g. ②
A=0.5g, $1.20 **B**=14g, $3.00 **C**=56g, $9.00 **D**=168g, $24.00

4580HH Horehound *Marrubium vulgare* Perennial forms a 2' bushy stand of grey-green wooly leaves, making a good border. Horehound candies were once common for soothing coughs and the tea makes a strong remedy for coughs and lung congestion. One of the bitter herbs of Passover. Transplant while seedlings are still small or direct seed into light dry sandy soil. Hardy to Zone 3. ~950 seeds/g. ②
A=0.2g, $1.10 **B**=1g, $2.80 **C**=4g, $6.00 **D**=12g, $12.00

4582HY Hyssop *Hyssopus officinalis* Beautiful aromatic perennial border plant which produces spikes of indigo flowers, traditionally used in cough syrups. Can be planted with rosemary and lavender for a colorful and fragrant effect. Its aroma stimulates alertness and mental clarity. Was used as a strewing herb, thrown on floors to mask odors. Add slightly bitter leaves to salads, soups and stews, or use as an expectorant tea. *People with epilepsy and pregnant women avoid use.* Dry light or sandy soil. Normally hardy to Zone 3, but we had 75% loss in 2003–4. ~850 seeds/g. ②
A=0.5g, $1.10 **B**=4g, $2.80 **C**=16g, $6.50 **D**=48g, $13.00

4584LM Lady's Mantle *Alchemilla mollis* I first admired this attractive plant in the lovely gardens at Avena Botanicals. Softly hairy wavy-edged leaves unfold like fans in early spring. Leaves hold rain and dew, sparkling in the early morning light. Alchemists believed the collected dew was the purest water and used it in their preparations; thus its genus name. Bears large loose sprays of tiny greenish-yellow flowers from early summer onward. Traditional remedy for women makes a good border and ground cover in shady locations. Seed is short-lived. Oscillating temperatures aid germination which requires 21–30 days. Likes average well-drained soil and moisture; tolerates most conditions. 12–18" hardy perennial. Zone 3. ~2,600 seeds/g. ②
A=0.05g, $1.20 **B**=0.2g, $2.80 **C**=1g, $6.50 **D**=4g, $13.00

4585LV Lavender *Lavandula angustifolia* Also known as English lavender. Famous for centuries for its sweet soothing lasting scent. Flowers used dried in sachets, wreaths and arrangements, and as a tea for headache or exhaustion. Hardy perennial reaching 3', woody shrublike plant with grey-green needle-like foliage and lavender flowers growing on long-stemmed spikes. Attracts small pollinating insects and syrphid flies. Likes well-drained alkaline sandy soil. Germinates in 21 days at 60–70 °. Texts claim hardy to Zone 5, but our patch in Zone 3 survived ten straight winters until coming a cropper during the nasty winter of 2003–4. ~1,000 seeds/g. ②
A=0.2g, $1.10 **B**=1g, $2.80 **C**=5g, $6.50 **D**=20g, $12.00

4586VB Vincenza Blue Lavender *L. a.* Vincenza's habit is more compact than common lavender with deeper green leaves and a more powerful, less sweet, aroma. If you like the smell of lavender, this is for you. 1' plants have bold clustered flower spikes with deep color from mid-July to early September. Flowers the first year without vernalization. Long-day perennial needs full sun. Zone 5. ~1,000s/g. ③
A=0.03g, $1.90 **B**=0.12g, $5.50 **C**=0.6g, $20.00 **D**=1.8g, $52.00

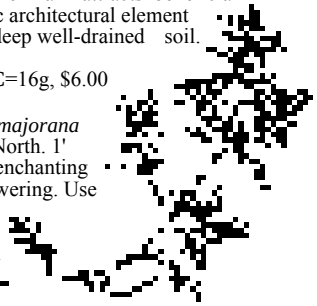
4587LG Lemongrass *Cymbopogon flexuosus* Nikos searched for years for this culinary strain of Lemongrass, native to Southeast Asia, used in food and medicine there for millennia, and adopted worldwide for the bright lemony flavor it imparts. Coarse grass sets 6–12 harvestable stalks, looking something like pencil leeks, slightly bulbous at the base. Harvest the tough stalks low; the plants will re-grow, though probably only to 3' here in Maine and not the 6' achieved in the tropics. Chopped or ground, fresh, dried or frozen, added to Thai soups, sauces and stir-fries, or made into a delicious medicinal tea which aids digestion. Perennial, grown as an annual in our climate unless potted up and brought indoors for the winter. Not a great germinator; 40% is considered good. Sow indoors and transplant out 8–12" apart. ~2,000 seeds/g. ③
A=0.1g, $1.20 **B**=0.3g, $3.00 **C**=1.2g, $9.00

4588LB Lemon Balm *Melissa officinalis* (70 days) Melissa is the Greek word for bee; the plant in flower attracts them. Perennial growing to 2'. Gather its yellow-green scalloped lemony leaves before plants flower. Delicious in salads, as a tea, with fruit, or dried for sachets. Flowers are edible. Essential oil of lemon balm smells fabulous and is highly effective against cold sores, but is very expensive. Steep multiple batches of leaves in olive oil to make your own infused oil, one of the many ways to enjoy this relaxing calming comforting uplifting herb all winter. Likes very well-drained fertile soil; wet ground may winterkill it more than cold. However, tends to self-sow in the very same years that the roots winterkill. Zone 4. ~1,800 seeds/g. ②
A=0.3g, $1.10 **B**=3g, $2.80 **C**=15g, $6.00 **D**=45g, $12.00

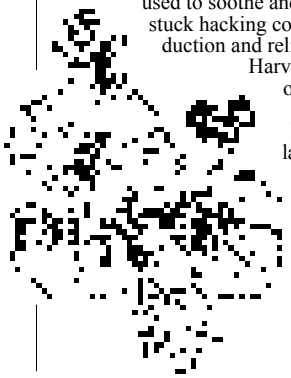
4589MT Lemon Mint *Monarda citriodora* A member of the bee balm genus in the mint family. Native to Appalachia and related to Oswego Tea. The tiered pinkish-purple flower spikes of this showy 2–3' plant are long-lasting in fresh bouquets and can be dried for everlasting arrangements. Its lemon-scented leaves are delicious and commonly used to impart a coarse mint flavor with a hint of oregano to tea. Inhale the steam to relieve cold symptoms. Best in light moist soil. Annual. ~1,800 seeds/g. ②
A=1g, $1.00 **B**=7g, $2.50 **C**=28g, $5.50 **D**=84g, $12.00

4590LC Licorice *Glycyrrhiza glabra* Sweet and soothing root contains glycosides similar to the body's own natural steroids. Beneficial for revitalizing adrenal glands after steroid drug therapy, stress, overwork or excess coffee. Good for colds and bronchitis; reduces throat irritation, yet an expectorant and anti-spasmodic. Also helpful for stomach ulcers and intestinal spasms. Adds sweetness, harmony and palatability to nearly every herbal combination. Give it lots of room so it can create the roots and runners you want. Weak competitor against weeds. Prefers sandy well-drained loam and a mulch to prevent heaving. Harvest 3–4 year-old roots in the fall. Perennial to Zone 4, grows 1 1/2–4', bears white to violet flowers. ~90 seeds/g. ②
A=0.1g, $1.50 **B**=0.3g, $3.80 **C**=0.9g, $9.00 **D**=4.5g, $30.00

4592LV Lovage *Levisticum officinale* (90 days from transplanting) An underrated herb with many uses. Leaves have a strong celery taste, and can flavor soups, stews and casseroles. Crush seeds and add to bread and pastries; candy stems and roots in sugar syrup. Said to restore the appetite and revive the love of life. For continuous young growth, keep the leaves clipped. Second-year plants are best for drying. Formerly used to mask the bitter herbs in medicinal concoctions. Leaves were sprinkled in shoes to revive weary travelers. Umbelliferous perennial attracts beneficial insects, grows 3–6' and makes a dramatic architectural element in a decorative border. Likes moist rich deep well-drained soil. Zone 4. ~140 seeds/g. ②
A=0.5g, $1.10 **B**=4g, $2.80 **C**=16g, $6.00 **D**=48g, $12.00



4616SM Sweet Marjoram *Origanum majorana* (80-95 days) Grown as an annual in the North. 1' plant with grey-green rounded leaves of enchanting sweet fragrance. Cut often to prevent flowering. Use fresh or dried. Adds flavor to soups, stews and stuffings. Subject to damping off; do not overwater. Likes well-drained dry soil. ~4,000 seeds/g. ②
A=1g, $1.10 **B**=7g, $2.80 **C**=28g, $7.50 **D**=84g, $20.00



4619MO Marshmallow OG *Althaea officinalis* Cousin to the hollyhock, used to soothe and soften irritated skin and membranes and to relieve stuck hacking coughs. It also mildly stimulates white blood cell production and relieves urinary tract infections and prostate problems. Harvest root of this 4–6' ornamental perennial in autumn of the third year. Meanwhile, enjoy the showiness of the flowers through the summer or eat the velvety leaves in salad. All mallows contain soothing mucilage in the root, and marshmallow has the most, so it makes a great home-garden substitute for slippery elm. For tea, steep roots in cold water for several hours rather than boiling. Plant in cool moist soil. Zone 4. MOFGA-certified. ~600 seeds/g. ①
A=0.4g, $1.20 **B**=1.2g, $2.80 **C**=6g, $6.50 **D**=24g, $15.00

4630TO Milk Thistle OG *Silybum marianum* Named for the bold white splashes on its glossy leaves, said to be from Mary's milk. Fast-growing 3–5' annual with fiercely beautiful leaves, up to 8x24". Native to the Mediterranean. Use edible young leaves in spring salads or cooked like spinach; remove spines first! Roots can be used like salsify. Flower stalk puts out large purple thistle flowers that were eaten like artichokes. Silymarin, found in the flowers and seeds, has been used to strengthen and regenerate liver tissue. Use heavy gloves to harvest the seed from the seedheads. Will self-sow; keep those gloves handy to pull unwanted volunteers before they get big and prickly. May present a way to outwit raccoons. Chris Mazur of Apple River, IL, planted some around his sweet corn patch, and though the coons ravaged the rest of his garden, they did not molest his corn. Likes dry soil, very tolerant of drought. OT-certified. ~40 seeds/g. ①

A=1g, $1.00 **B**=4g, $2.50 **C**=28g, $6.00

4632CM Common Mint *Mentha spicata* (60 days from transplanting) Specific types of mint won't come true from seed. This is the common tea mint. Can be grown directly in pots indoors in winter. Keep it in containers to check its invasive tendencies. Likes moist soil, full sun or partial shade. Perennial to Zone 4. ~12,000 seeds/g. ②

A=0.2g, $1.20 **B**=1g, $2.50 **C**=4g, $5.50 **D**=16g, $16.00

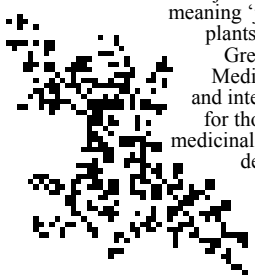
4640MO Motherwort OG *Leonurus cardiaca* The genus Leonurus in Greek signifies lion's tail, to which the plant has a fanciful resemblance. Hardy perennial of the mint family grows 2–4' with dull green leaves having a pungent odor and rather bitter taste. Good bee plant. Pick flowering tops for tea or herbal tincture. Believed to strengthen the heart muscle and relieve nervous tension. Used by women during life transitions. Readily self-sows even in relatively poor soil; pull up unwanted first-year basal rosettes before they put out their spiky flower stalk the second year. Zone 3. WA-certified. ~1,200 seeds/g. ①

A=0.2g, $1.40 **B**=1g, $3.40 **C**=3g, $10.00 **D**=9g, $25.00

4644SO Stinging Nettle OG *Urtica dioica* Biodynamic gardeners use nettles to increase the potency of neighboring herbs, and to stimulate humus formation. An indicator of very fertile soil where it volunteers. Young shoots and leaves are delicious steamed as spring greens, very high in minerals. Also makes a great hair rinse or dry chicken feed. Perennial may spread rampantly by underground rhizomes if not harvested. Choose your spot carefully; the roots as well as the leaves can sting. Cooking or drying removes the sting. Plant in damp rich soil with high nitrogen content; especially likes composted manure piles or the leaky side of your lushest compost bin. Chill the seed before sowing to improve germination, which takes 10–14 days. Grows 3–6'. Zone 2. 6,000 seeds/g. OT-certified. ①④

A=0.2g, $1.40 **B**=0.6g, $3.00 **C**=2.4g, $7.00 **D**=7.2g, $14.00

4648GR Greek Oregano *Origanum heracleoticum* One of more than 50 species of the oregano genus, this is the true culinary herb and a close relative of marjoram. The ancient Greeks gave it its name oregano, meaning 'joy of the mountains.' These fragrant flowering plants grow freely on the steep rocky alkaline hills of Greece, Sicily, Southern Italy and Israel, filling the Mediterranean mountainsides with their joyful cheer and intense scent. Not only has oregano flavored foods for thousands of years, but it also has had a variety of medicinal uses, from relieving rheumatism and asthma to decongesting stuffy head colds and even calming seasickness. Low-growing perennial with fragrant dull green and purple leaves and white flowers. Harvest when it is beginning to flower. Start indoors in spring for best results. Likes light well-drained soil. Will lose potency if soil is overfed. Zone 4. Survives some, but not all, winters in Zone 3. ~9,000 seeds/g. ②



A=0.2g, $1.30 **B**=1g, $3.20 **C**=5g, $6.00 **D**=20g, $20.00

4651PR Pennyroyal *Mentha pulegium* Native to Europe, across the Mediterranean into Persia. Hardy aromatic ground cover is notorious for its insect-repellent properties: can be used to ward off mosquitoes and to repel fleas from pets. Makes a potent tea. Pennyroyal's distilled oil can be toxic, but the tea rinse is safe for external use. *Caution: Pregnant women should not use.* Plant 6" apart to make a dense mat. The plants creep with only the lavender flower stalks rising above the ground. Perennial in the mint family likes rich well-drained soil with good moisture. Mulch for winter protection in Zones 4 and 5. ~12,000 seeds/g. ②

A=0.2g, $1.30 **B**=0.6g, $3.00 **C**=1.8g, $6.50 **D**=5.4g, $15.00

4657RM Rosemary *Rosmarinus officinalis* From the Latin *ros marinus* meaning 'dew of the sea,' a reference to its native habitat, the Mediterranean coasts. Beloved tender perennial growing to 3–4'. Cannot withstand temperatures below 17°, may be overwintered indoors if kept cool and moist. Try near a cool basement window and keep misted. Dark grey-green needle-like leaves impart a robust resiny flavor that complements chicken, pork and potatoes wonderfully. David makes a whole wheat thin-crust pizza topped with only rosemary, goat cheese, garlic, olive oil and salt. Rosemary clippings are said to repel slugs. Blossoms range from deep blue to pale pink or white. Leaves conserve water. Likes dry alkaline soil; peat pots are too acidic to be a good starting medium. Not a good germinator—30% is average. Zone 8. ~800 seeds/g. ②

A=0.2g, $1.40 **B**=0.6g, $3.20 **C**=1.8g, $7.00 **D**=7.2g, $20.00

4659RU Rue *Ruta graveolens* Graveolens means 'strong smelling.' Also known as Herb-of-Grace. Very attractive perennial shows blue-green foliage with delicate yellow flowers. Used as an insect and deer repellent. Its leaves, aromatic and bitter, contain iron and rutin for strengthening blood and vessels. Calms heart palpitations, nervous indigestion and colic. Used in eyewash to soothe tired eyes and relieve headaches from eyestrain. *Rue should never be ingested by pregnant women.* Several herbalists warn that large doses can cause pain and vomiting; also contact dermatitis in sensitive individuals. Ancients rubbed their arms in olive oil before harvesting to prevent irritation. Likes poor soil and needs good drainage. 18–24" tall. Zone 3. ~450 seeds/g. ②

A=0.5g, $1.10 **B**=2g, $2.50 **C**=8g, $5.50 **D**=24g, $12.00

4664BS Broadleaf Sage *Salvia officinalis* Grows up to 3', with fuzzy grey-green oblong leaves and blue flowers. Used fresh or dried. Tasty in stuffing blends, with eggs, cheese, poultry, pork. CR and Eli use it to enhance black tea and coffee. Sage tea dries up mothers' milk and helps reduce hot flashes. Likes well-drained rich soil with good nitrogen content. Plants grow woody with age; replace every 3 years or so. Zone 4, but only one of our five plants survived the harsh winter of 2003–4. ~125 seeds/g. ②

A=1g, $1.10 **B**=4g, $2.80 **C**=16g, $5.50 **D**=48g, $12.00

4666WS White Sage *S. apiana* An important ceremonial herb for Native Americans who use it for purification. Leaves can be smoked, taken as a tea, or used for smudge sticks and in sweat lodges. Bushy perennial with thick stems and dusty grey-green foliage. A good bee plant. Not nearly as hardy as common sage; needs heavy protection to overwinter in our climate. Zones 6–9. ~700 seeds/g. ②

A=0.05g, $1.90 **B**=0.2g, $5.50 **C**=1g, $25.00 **D**=5g, $120.00

4668SS Silver Sagebrush *Artemisia ludoviciana* The other white sage, easier to grow than #**4666** and perennial in Zones 4-8. Most often used ceremonially and as a smudge for cleansing and purification. Its ornamental silver foliage makes it an attractive landscape plant as well, growing to a height of 1–3'. Sow in spring when soil warms to 65°. Space plants 1½' apart. Can spread. ~10,600 seeds/g. ②

A=0.02g, $1.30 **B**=0.1g, $3.00 **C**=0.4g, $6.00 **D**=2g, $18.00

4669SB Salad Burnet *Sanguisorba minor* (70 days from transplanting) Toothed oval leaves lend a cucumber flavor to salads, soups, vinegars and cold drinks. Also makes a soothing wash for sunburn or eczema. Nice perennial edge plant starts growing early spring and stays green till snowfall, reaching 1'. Sow spring or autumn. Cut back flower and seed stalks to encourage leaf growth. Zones 4–8. ~175seeds/g. ②

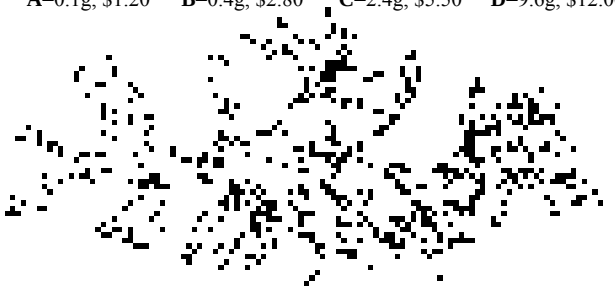
A=1g, $1.10 **B**=7g, $3.00 **C**=28g, $6.00

4672SS Summer Savory *Satureja hortensis* (70 days) Annual grows to 1½' with narrow dark-green leaves and lavender flowers. Cut often during growing season, before blossoms appear. Sow after last frost in well-drained soil next to beans, their complement in the kitchen as well. Use with dry or green beans, rice, stuffings, or in onion soup. Left to bloom, it is beautiful in fall with dark purple foliage and lavender flowers. ~1,700 seeds/g. ③

A=1g, $1.00 **B**=14g, $3.00 **C**=56g, $5.50 **D**=224g, $15.00

4674WS Winter Savory *S. montana* (100 days from transplanting) Leaves shinier and thicker, stronger and more pungent than summer savory. Used to flavor dry beans or sauerkraut, winter soups and stews. Hardy dwarf bush perennial grows 6–12", thriving in dry poor soil. Start indoors 8–10 weeks before last spring frost date; transplant after danger of frost. Makes an attractive border with its tiny green leaves and light lilac flowers. Also used as a tea to calm indigestion or as a gargle for sore throat. Zone 3. ~2,000 seeds/g. ②

A=0.1g, $1.20 **B**=0.4g, $2.80 **C**=2.4g, $5.50 **D**=9.6g, $12.00



4680RS Red Shiso *Perilla frutescens* (85 days) Annual also known as perilla. Introduced from Japan in the 1850s. Its extremely ornamental curly purplish-red cinnamon-scented sharp-flavored leaves are used in sushi, sweet and sour sauces, and stir-fries. Also known as *zi su*, a specific in Chinese medicine for seafood poisoning. Louise Weber of Greenwich, CT, asserts that deer won't touch it and plants it around their favorite crops. To break dormancy, freeze and thaw the seed several times over a 21–45 day period. Soak seeds several days or until they sprout. Move to indoor flats, then transplant into warm moist well-drained soil. Grows up to 4'. Absolutely intolerant of frost. ~500 seeds/g. ⑤

A=1g, $1.30 **B**=4g, $3.60 **C**=12g, $9.00 **D**=36g, $21.00

4681BS Baikal Skullcap *Scuttelaria baicalensis* Beautiful little perennial with a myriad of small violet monkshood-shaped blooms on a 1–2' subshrub. Looks like a shiny rosemary with slender ovate leaves. A definite candidate for the rock garden, it tolerates drought and grows best in light well-drained soil. Important as the Chinese herb *huang qin*, 3–4 year roots are dried and used as a bitter sedative cooling herb that lowers fever, blood pressure and cholesterol levels while stimulating the liver; also used to stop bleeding. To encourage the roots' optimal medicinal powers, pinch buds and don't let flowers bloom. Zone 3. ~250 seeds/g. ②

A=0.1g, $2.00 **B**=0.3g, $5.50 **C**=1.2g, $20.00 **D**=3.6g, $55.00

4682MS Mad-dog Skullcap *S. lateriflora* Often called Virginia Skullcap, native spreading perennial needs moist rich soil and likes partial shade. Herbalists claim it is an effective headache remedy, great for insomnia and both calms and strengthens the nervous system. Flowering tops of skullcap are used in daily teas as well as formulas for chronic conditions. Called Mad-dog because the tea was once used as a folk remedy for rabies. Enjoy its numerous small blue flowers from July through September or put the leaves in a pillow to induce restful sleep. 1–2' plant is hardy to Zone 4. ~500 seeds/g. ②

A=0.05g, $1.30 **B**=0.2g, $3.20 **C**=0.8g, $7.00 **D**=2.4g, $16.00

4683SO Spilanthes OG *S. oleracea* Known to herbalists as the toothache plant and to some gardeners as the eyeball plant for its cute yellow globe flowers with rayless red-orange centers. Spilanthes' tingling and mouth-numbing properties appear rapidly and last a while. Also known as Salad Cress, it was introduced from Brazil to North America in the 1860s and listed as Para Cress in seed catalogs a century ago. Use its bronzy-purple leaves in salad or chew the leaves and flowers for temporary pain relief. Its immune-stimulating properties, similar to echinacea's, are giving it a wider audience. Highly frost-sensitive and must be started indoors in warmth and transplanted after all danger of frost. Used as a ground cover in the south, it adds unusual beauty with its low growth habit and makes a colorful border planting in fertile moist soil. MOFGA-certified. ~3,000 seeds/g. ①

A=0.02g, $1.50 **B**=0.08g, $3.50 **C**=0.32g, $8.50 **D**=0.96g, $22.00

4684ST Stevia *S. rebaudiana* (100-120 days) As sweet as it gets, stevia is several hundred times sweeter than sugar, but without the calories. It is used fresh, dried, powdered or in a liquid as a sugar substitute. An erratic and finicky germinator, the seed needs light. Likes heat so should not be transplanted outdoors until nights stay above 50 °. Work compost into well-drained soil or raised beds. It needs good drainage. Stevia grows into a bushy 2' plant with serrated toothed leaves and white flowers in late summer. Pinch it back for greater bushiness and higher yields. Perennial in Zone 9, so treat as an annual or bring indoors in a container. Interestingly, sweet as it is, it retards plaque and inhibits tooth decay. For more information about its culture and use see *Growing and Using Stevia* by Jeffrey Goettemoeller and Karen Lucke (# **9690** in the Organic Growers Supply section). ~3,100 seeds/g. ②

A=0.01g, $2.00 **B**=0.04g, $5.50 **C**=0.2g, $24.00

4686TS Topas St Johnswort *Hypericum perforatum* Pretty yellow flower of fields and meadows turns tinctures and oils deep red. Used as tea, tincture or infused oil for many nerve disorders, from neuralgia and sciatica to anxiety, insomnia, stress, mild depression, seasonal affective disorder and chronic exhaustion. Helpful during menstruation, postpartum and menopause. The infused oil is also cooling to sunburn and cuts, soothing to strained joints and muscles. Was even used in the Middle Ages for sword wounds! Frequent use can cause photosensitivity. Compared to generic St. Johnswort, Topas is an improved strain for commercial production, much earlier (blossomed first year from seed), more floriferous with a higher content of hypericin. Seedlings grow slowly. Prefers well-drained dry soil; very drought tolerant but essential oil levels increase with some moisture. 1–2' perennial hardy to Zone 3. *Regret we cannot ship to North Dakota or California where it is considered a noxious weed.* ~7,000 seeds/g. ③

A=0.1g, $1.20
B=0.5g, $3.00
C=2g, $6.00
D=8g, $16.00

4687GT German Thyme *Thymus vulgaris* Creeping 10–12" mat-forming perennial brings depth of flavor to soups, gravies, casseroles. Said to calm the nerves, soothe headaches. As good in salad dressings as it is in sore-throat remedies. Bees love its short lavender flower spikes. Likes well-drained light dry alkaline soil. Its fine root system makes thyme difficult to move around the garden. Hardy Zones 4–9. ~4,000 seeds/g. ③

A=0.2g, $1.20 **B**=3g, $3.00 **C**=15g, $5.50 **D**=45g, $16.00

4689VL Valerian *Valeriana officinalis* Known as Nature's Tranquilizer or Herbal Valium, valerian root is used to reduce tension and anxiety, alleviate insomnia, and relieve muscle spasms and uterine or bowel cramping. Harvest the roots in the fall of the second or later year. Early Greeks referred to valerian as *phu* (like our "phew"), because of the distinctive fetid musky smell of the roots. Widely used in Europe as a tranquilizer, both for adults and hyperactive kids. Avoid high doses for prolonged periods. Tall leafy 3–5' perennial with clusters of honey-scented pale pink flowers. Remove flowers to hasten root development. Plant in moist fertile soil about 1' apart. Hardy to Zone 3. ~800 seeds/g. ③

A=0.2g, $1.30 **B**=0.6g, $2.80 **C**=2.4g, $6.00 **D**=7.2g, $14.00

4692BO Blue Vervain OG *Verbena hastata* This 5–6' perennial grows naturally in the moist soils of thickets and meadows and will do well in similar garden conditions, sending up many terminal spikes of bristly blue-violet flower clusters the entire season. Although scraggly, it blends very well with many kinds of flowers by stretching its spikes amongst them. Herbalist Gail Edwards finds it "a powerful spiritual presence" and nervous system tonic. Similar to *V. officinalis*, but more alterative, vervain acts mainly on the liver and lungs. Also used for menstrual disorders. Its roots are more active than its leaves. Likes light well-drained moist soil. Zone 3. WA-certified. ~2,500 seeds/g. ①

A=0.1g, $1.40 **B**=0.4g, $3.00 **C**=4g, $14.00 **D**=12g, $32.00

4698SW Sweet Woodruff *Galium odoratum* A lovely ground cover for shaded areas, its whorls of pointed leaves covered with clusters of tiny snowy-white spring flowers. Vanilla-scented leaves are essential in Maybowl, a traditional German punch, and also used in potpourris. Said to be helpful for migraine, nervous conditions and stomach pain. Drying increases its clover fragrance. A classic strewing herb in the Middle Ages used to purify the church, dining hall and bedrooms with its coumarin-rich fragrance. Sow outdoors in a woodland site or in a heavy layer of well-rotted leaf mulch. Can be very slow to germinate—up to 200 days—and then may not be visible right away because the plants grow by underground rhizomes. Be patient, Woodruff will appear the following spring and grow 6–8" tall. Perennial, Zones 5–9. ~160 seeds/g. ②

A=0.2g, $1.40 **B**=0.6g, $3.00 **C**=2.4g, $6.00 **D**=7.2g, $15.00

4699WY White Yarrow *Achillea millefolium* Flat-topped white flowers bloom June–August with an odd alluring scent that attracts bees, butterflies and beneficials. One of the most popular herbs for colds and flu. A hot cup of tea from leaves and flowers induces a sweat to throw off heat and toxins. Also used to lower blood pressure, and to stanch internal and external bleeding. New research indicates yarrow may be helpful for hay fever or other allergenic mucosal reactions. Avoid large doses during pregnancy. Perennial grows 1–2', spreads slowly, preferring lean soil. Rich garden soil may produce lush 3' plants which need staking. Zone 2. ~5,000 seeds/g. ②

A=0.1g, $1.00 **B**=1g, $2.50 **C**=14g, $7.00 **D**=56g, $18.00

"The city of Salina allows up to 15 chickens inside city limits—guess what I'm building in the backyard? Hey! How about a new division? Fedco Fowl!"
—Michael Cummings, Salina, KS

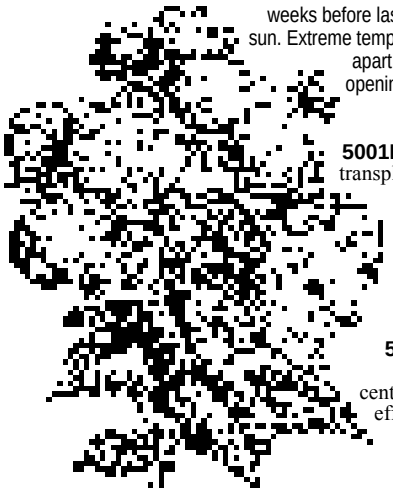
ANNUAL FLOWERS

Flowers are arranged here mostly by common name. **See chart on pp. 76–77 for cultural information and common uses. A botanical index appears on p. 103.** Days in parenthesis after varieties indicates days to first bloom.

What to plant next to what? A good old trick is to cut a flower and walk it around the garden, holding it close to other flowers to see which combinations are most compatible.

AGERATUM *A. houstonianum*

Its name means 'not growing old' as the flowers retain color for a long time. Showy annual also known as Flossflower. Great for summer borders. Water in hot weather. Will not tolerate frost. Start indoors in an 80˚ spot 6–8 weeks before last frost, grow on at 60–65˚. Likes full sun. Extreme temperatures inhibit flowering. Set 9–12" apart. Cut for vase when flowers are first opening. **~7,000 seeds/g.**



Blue Blazer Dropped for slow sales; *no longer available.*

5001DB Dondo Blue (40 days from transplanting) A cutting ageratum with long stems. Blooms held nicely through a rainy summer, all the way from July 20 to Oct. 5 killing frost. ②
A=0.1g, $1.10
B=0.5g, $2.00
C=2g, $5.00

5002LD Leda Sparkling bicolor blossoms, light blue with white centers. Quilled petals lend a frosted effect. Very slow to brown even in our seemingly interminable fall 2011 rains. ②
A=0.1g, $1.10 **B**=0.5g, $2.00
C=2g, $5.00

5003RS Red Sea These long-stemmed beauties make great cutflowers. We looked a long time for a "red" ageratum that holds its color in adversity. These looked clean even after a 3" rainfall. The color is magenta rather than true red. Attracts bees and butterflies. Fleuroselect winner. 25". Pelleted seed sold by count. ~160s/g. ③
A=20 seeds, $1.20 **B**=60 seeds, $3.00 **C**=180 seeds, $6.00

5004WB White Bouquet (90 days) A white ageratum that doesn't get "dirty" after a few rains. Blooms from early July through early October. In addition to steadfast color, White Bouquet boasts nice long stems, excellent for cutting. 24". ②
A=0.01g, $2.00 **B**=0.05g, $6.00

5005CS Carpet of Snow Alyssum (60 days) *Lobularia maritima* Free-flowering ground cover, blossoming from late spring well into fall with a fragrance like fresh-mown hay. Cascading habit makes it excellent for windowboxes or terrace edges. 4" dwarf white. Formerly known as Little Gem, predates 1890. Widely recognized nectar source for beneficial insects. Start seed in cool place 2 mos. before setting out. Needs light to germinate. Transplant seedlings 4–8" apart. Easy to grow, likes sun, tolerates some shade. To extend their season, shear plants half-way back four weeks after bloom. Resistant to frost, will tolerate temperatures below 25°. ~3,200 seeds/g. ②
A=0.5g, $1.00 **B**=7g, $2.50
C=28g, $5.00 **D**=84g, $12.00

Like surprises?
Check out our website
www.fedcoseeds.com
to see what specials arrived too late to make the catalog.

AMARANTH *Amaranthus* spp.

A dual-purpose crop, both nutritious and decorative. From the Greek *amarantos* for 'unfading.' Used now as an ornamental, especially in harvest arrangements, amaranth was an extremely important food of the Aztecs. Amaranth grain has between 16–18% protein. Also see #**5217. ~1,250 seeds/g.**

5011CH Copperhead *A. cruentus* (46 days) Flaunts glorious copper-colored seedheads atop its majestic 5' stalks at maturity. Wonderful decorative complement to the red amaranths, used as a garden backdrop or to give harvest arrangements a bright earthy autumnal color. Also an underused food plant both for its seeds and its young leaves, but the seeds may require too long to mature in our climate. ②
A=0.2g, $1.30 **B**=0.6g, $2.50 **C**=1.8g, $6.50 **D**=9g, $24.00

5013EO Elephant Head OG *A. gangeticus* Reports Shirley Kimberly of Plessis, NY, way up in the North Country near the St. Lawrence River, "the Elephant Head Amaranth caused the biggest stir up here since the ice storm! I had one that was a foot tall and I put it right in the middle of a bouquet that I sell at the local grocery store. Everyone stopped just to stare at it; we got giggles and out-and-out guffaws from everyone. I want to plant a whole row of them next year." A 110-year old heirloom with a flair for the dramatic. The deep reddish-maroon bloom develops a 6–12" vertical "trunk" atop a 12–18" base during August. The whole spectacular plant grows 3–5'. Seed from German immigrants saved by three generations of gardeners in Idaho, popularized by Seeds of Change. OT-certified. ①
A=0.1g, $1.30 **B**=0.3g, $2.60 **C**=1.2g, $6.00 **D**=6g, $20.00

5014HO Hopi Red Dye OG (46 days) *A. cruentus* A stately 6' plant, Hopi was the best of the nine amaranths in our trial, displaying 1–2' deep burgundy inflorescences. Leaves may be green or burgundy or some variation. Eat the young leaves in salads or slightly steamed, admire them young or old. The Hopis make a scarlet food dye from the flower bract to color their ceremonial *piki* bread. Yanna Fishman of Union Mills, NC, suggests using Hopi in your floral arrangements. "When added to a flower bouquet it makes an ordinary clear jar look like an elegant purple-tinted vase as it colors the water." MOFGA, Stellar NOP-certified. ①
A=1/16oz, $1.20 **B**=1/8oz, $2.20 **C**=1/2oz, $5.00 **D**=1oz, $8.50
E=4oz, $30.00

5015AM Ammi Majus *A. m.* (105 days) Also known as White Dill, False Queen Anne's Lace and Bishop's Weed. Grows 3–4'. This popular florists' filler looks like an elegant cousin to Queen Anne's Lace. I was enchanted by its attractive green buds and intoxicated by its aroma. Flat white lacy flower heads 5–6" across lend an airiness to bouquets. Best cut when all the florets are nearly open but before they shed pollen, Ammi will last 5–7 days in the vase. Prechill seeds two weeks. Cover seed lightly. Needs fluctuating temperatures, 80° days and 50 ° at night. Do not apply bottom heat. Germinates 7–14 days. Space 9–12" apart. *Caution: some people get contact dermatitis from the sap in the presence of sunlight.* ~1,900 seeds/g. ②
A=0.5g, $1.00 **B**=2g, $2.50 **C**=20g, $5.00

CHINA ASTER *Callistephus chinensis*

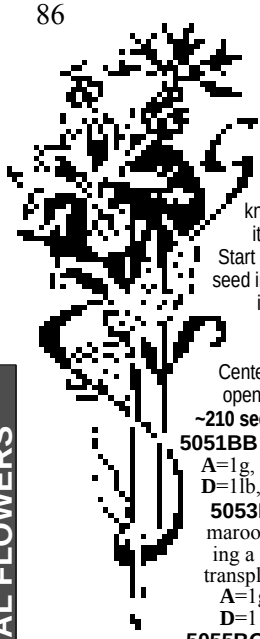
Callistephus is from Greek *kallos* meaning beautiful and *stephos*, crown. The China Aster began its journey west around 1730 when a Jesuit missionary noticed it growing in a field near Beijing. Wildly popular by 1883 when Burpee listed 19 different classes of them compared to two each of marigold and zinnia. Good as bedding plants or cutflowers. Range of color includes blues, purples, pinks and white. Sow indoors at 70–72' in late winter, transplant after danger of frost. Cut stems when 2–4 flowers have opened. Vase life is 5–7 days, longer if you use a floral preservative. Aster Yellows is a serious disease problem. Use floating row covers to keep out leafhoppers, the vector. **~ 450 seeds/g.**

5028CR Crego Mix Bold ostrich-feather blooms hold well in wet or cold conditions. 2' plants with 4" flowers. Maule in 1915 asserted that they "surpass in size and beauty any other aster we have ever seen." "Pleasing, stately, handsome and vigorous," concluded H.W. Buckbee in 1927. ②
A=0.5g, $1.00 **B**=4g, $2.50 **C**=16g, $5.00

5030MM Matsumoto Mix (100 days) A very classy cutflower that may be harvested by the individual stem or in its entirety. Flowers sport distinct yellow centers amidst a variety of shades including apricot, blue, pink, red, rose, salmon and white. 2" semi-double blooms are concentrated at the top of strong 2½' stems. ⑤
A=0.2g, $1.80 **B**=3g, $7.50 **C**=9g, $20.00

5032PR Princess Mix (110 days) 2–3" flowers on long wiry stems. The pompon blooms are richly colored with deeply crested centers. Elegant cut-flowers tend to be late bloomers. Unsurpassed in September. ②
A=0.25g, $1.10 **B**=2g, $2.60 **C**=8g, $6.50

Sea Star Mix *No longer available.*



BACHELOR'S BUTTON
Centaurea cyanus

Named for the centaurs of Greek mythology. Easy to grow, great for cutflowers and beds. Common name may refer to the tight unopened buds' resemblance to buttons or to their popularity as boutonnieres. Also known as Cornflower and, formerly, Hurt-Sickle because its wiry stems dulled many a sickle during mowing time. Start indoors at 60–65˚ 2 months before setting out or direct seed in May in a sunny location. Make a succession planting in mid-late June if you desire late-summer blooms. Will self-sow. Lasts longer than most flowers after frost. Gained top rating for drought resistance from Garden Centers of Colorado. Cut when flowers are just beginning to open—they'll open more in the vase and last 6–10 days. 3'. **~210 seeds/g.** *Cannot ship to Alaska.*

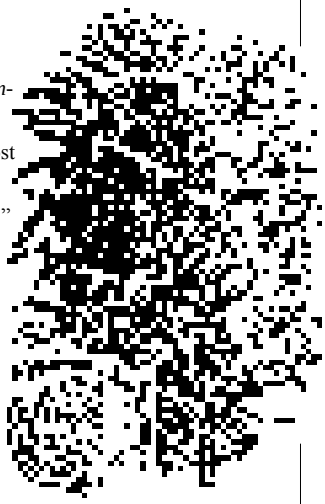
5051BB Blue Boy (90 days) Showy blue. ②③
A=1g, 90¢ **B**=28g, $2.50 **C**=112g, $6.00 **D**=1lb, $18.00

5053FR Frosty Mix (96 days) Dark centers featuring maroons and purples fade into white outer petals, creating a frosted effect. Bloomed four weeks after a May 2 transplanting at Loon Song Farm. ②
A=1g, $1.00 **B**=7g, $2.80 **C**=28g, $7.00 **D**=112g, $18.00

5055BG Black Gem or **Garnet** (90 days) Ruffled dark maroon. Dates from Buist's 1942 catalog. Hard to find. ②
A=0.25g, $1.20 **B**=1g, $2.80 **C**=4g, $6.00 **D**=12g, $10.00

5056RB Red Boy (90 days) Deep red. Dates from 1942. ②
A=1g, $1.00 **B**=7g, $2.50 **C**=28g, $5.00 **D**=1lb, $25.00

5060BM Mix (90 days) Showy blend of blue, pink, red, white flowers with blue predominating. ②③
A=1g, 90¢ **B**=28g, $2.50
C=112g, $5.50 **D**=1lb, $17.00



5066CB Double Camellia Mix Balsam *Impatiens balsamina* Balsam reigned supreme during the Victorian era when it was called Lady Slippers but has been neglected for almost a century. Vick's in 1895 averred "no plant will give more in return for the care bestowed upon it and none is more frequently neglected," recommending spacing at least 1' apart, aiming for a wide diameter at the base and a pyramid shape covered with flowers. A different school suggests pinching off the side branches and the first flowers to encourage a profusion of blooms near the top of the plant and give the effect of a ready-made bouquet. Both agree that wide spacing is important to make the most of Balsam's novel show of abundant pink, rose and white rosettes along the axils up its stems**.** Direct seed after danger of frost. Don't cover the seed. 2'. ~120 seeds/g. ②
A=1g, $1.00 **B**=7g, $2.50 **C**=28g, $5.50

5070NB Nonstop Tuberous Begonia *B.* x *tuberhybrida* (140 days) F-1 hybrid. A boisterous mix of flamboyant color to awaken your garden! Nine shades, from pink to fiery red, apricot to golden orange, plus yellow and white, create a riot of color in a shady garden border or in hanging pots. Europe's #1 windowbox plant sports showy 3 1/2–4 1/2" fully double blooms on vigorous basal-branching stems. Thuja Gardens' lovely display outside their main lodge in Northeast Harbor, ME, inspired us to list begonias. They like shade, moisture, very rich soil, will tolerate a bit of sun. Start indoors, set out after all danger of frost. Needs 75 ° to germinate; takes 2–3 weeks. Pelleted seed. Packed by seed count, not weight. ②
A=10 seeds, $1.80 **B**=50 seeds, $6.00

CALENDULA *C. officinalis*

Old kitchen garden flower, 18–20" tall, also known as Pot Marigold. Beautiful orange and yellow semi-double flowers, good for informal bouquets, also edible. Blossoms can be snipped from their stems, dried and added to soups, salads and stews. They are also used in homeopathic remedies and herbal tinctures and ointments for their antiseptic and soothing qualities. Calendulas have an extremely long blooming period, thriving in cool weather and persisting through autumn's first frosts. Can be direct seeded in May or started indoors in cool place for early blooms. Readily self-sows. Don't crowd, give them full sun. Deadhead to keep blooms coming and make the patch more attractive or try succession plantings. **~150 seeds/g.**

5079FO Flashback OG (55 days) A mix of orange, apricot and peachy doubled petals, all with red backing to create a distinctive contrast. Colors fade to bicolor yellows or yellow-peach, adding interest as the plants mature. Blooms withstand light fall frosts; still look good in October. OT-certified.①
A=1g, $1.60 **B**=4g, $3.50 **C**=12g, $8.00 **D**=48g, $24.00

5081KO Kablouna Mix OG (60 days) Distinct refined form features striking crested blooms of gold, orange, lemon and apricot with a dark contrasting center. One of the loveliest of the calendulas. "Kablouna," our seed room goddess who looks after the good fortune of seed packers, was named for this cultivar. ICS, OT -certified. ①
A=1g, $1.10 **B**=4g, $2.80 **C**=12g, $6.50 **D**=1oz, $11.00

5083MO Maya Orange OG A calendula with a different look. Its brick-orange petals are layered like shingles around the dark brown center giving the illusion of double blossoms, though they really are not. Good cuts to enliven summer bouquets. Donna Dyrek's began blooming on July 14 in 2009. Readily self-sows. AGRIOR-certified. ③
A=1g, $1.50 **B**=4g, $3.80 **C**=12g, $9.00 **D**=48g, $25.00

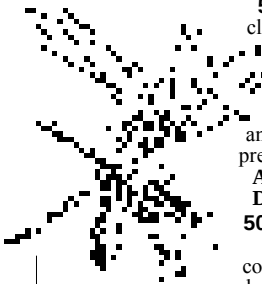
5085PB Pacific Beauty Mix The classic lovely yellow and orange mix. Herbalists highly regard its healing gifts. ②
A=2g, $1.00 **B**=14g, $3.20 **C**=56g, $8.00 **D**=224g, $20.00

5086RH Red Heart (70 days) Maroon-red centers and petal backs give the vibrant orange petals a heartwarming red glow. Filled with petals and very decorative. ②
A=1g, $1.10 **B**=4g, $2.80 **C**=12g, $6.00 **D**=48g, $16.00

5087RO Resina OG (70 days) The best calendula for making tinctures and oils and the one Deb Soule grows at Avena Botanicals. Its medium-sized single blooms with small eye are extremely resinous, coating your fingers or clippers while you harvest flowers. The medicinal sticky resins impart a pleasant odor. Blossoms are primarily bright yellow with yellow centers. A few will be orange with light orange centers. Cheery flowers, good medicine. ICS, OT-certified. ①②
A=1g, $1.30 **B**=3g, $3.50 **C**=9g, $8.00 **D**=27g, $18.00

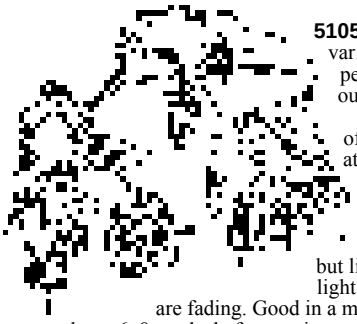
5088LO Solar Flashback Mix OG (55 days) A hot release from Frank Morton's amazing calendula program. Morton describes it as "a distinctive new family of flash, selected to highlight contrast between bright light yellows, pinks, and solid red or maroon." Some feature yellow petals, some pinkish-blond, some yellow with light tips, all with contrasting red backs. Take a vacation from calendula orange. ☙2007. OT-certified. ①
A=1g, $1.60
B=4g, $3.50
C=12g, $8.00
D=48g, $25.00

5089ZO Zeolights OG Pinky-maroon backing shows through the yellow petals to lend a pink tinge to the familiar calendula-yellow. Dark centers accentuate the color contrast. A Morton original. OT-certified. ①
A=1g, $1.50
B=4g, $3.50
C=12g, $8.00
D=48g, $25.00



5094CC Canary Creeper *Tropaeolum peregrinum* A climbing relative of the nasturtium. Profuse 8' vines with unique deeply lobed frog-toe-like foliage and clusters of lacy-petaled golden-yellow flowers from midsummer till frost. Gorgeous when grown on a sturdy tripod with #**5275** Kniola's Purple morning glories and/or #**318** Scarlet Runner beans. Grows in shade but prefers full sun. ~15 seeds/g. ②
A=1g, $1.10 **B**=7g, $4.00 **C**=28g, $10.00 **D**=112g, $30.00

5098FM Tall Candytuft Mix *Iberis umbellata* A sweet antidote to monotonous candytuft: a mixture of vibrant colors from pink to dark purple with a few whites included for contrast. Bushy mounded plant grows 18–24" and is covered with abundant small scented flowers. Excellent for borders. Direct seed in late spring. *Candia*, an old name for Crete, and *Iberis* show its Mediterranean origins. ~420 seeds/g. ②
A=0.5g, $1.00 **B**=5g, $2.50
C=25g, $5.00



5105CE Kiwi Blue Cerinthe *C. major* var. *purpurescens* Also known as European Honeywort or Wax Plant. Vigorous bushy annual 12–30" really comes into focus when the cooler nights of late summer and early fall accentuate its colors. Coin-shaped grey-green foliage covers the sprawling stems. Profuse blue shrimp-like bracts bear terminal purple flowers shaped like comfrey blossoms. Tolerates heat, but likes cool weather and will withstand light fall frosts, looking best when others are fading. Good in a massed border. Direct seed or start indoors 6–8 weeks before setting out after danger of frost. Quick emerging and rugged. Rachel O'Meara of North Stratford, NH, observes, "Your notes say to start indoors, but I find it much better to direct seed—otherwise it is gone too soon." ~15 seeds/g. ⑤

A=0.6g, $1.50 **B**=2.4g, $5.00 **C**=7.2g, $12.00

5110CY Firmament Chinese Forget-Me-Not *Cynoglossom amabile* Also known as Hound's Tongue. No other flower can match the brightness of these tiny dainty 5-petaled azure-blue blossoms. Floriferous throughout the summer with three blooms per cluster and a half dozen clusters per plant. Try alongside calendula for color contrast. Introduced by Ernst Benary. 1939 AAS. Start indoors 6 weeks before the last frost or direct seed outdoors in spring. Germinates in 5–10 days at 65–70°. Space plants 9" apart. Prefer full sun. 16–18". ~200 seeds/g. ②

A=1g, 90¢ **B**=7g, $2.00 **C**=28g, $5.00

5121CL Clarkia Mix *C. unguiculata* Also known as Rocky Mountain Garland or Satin Flower. A native of the American West where it was observed during the Lewis & Clark expedition and given its name. A standout in our flower beds, always one of the first to bloom, often lasting a long time, especially in cool summers. Bears double flowers of pink, red and white along 2' erect stems. Makes a wonderful border. Can be direct seeded, but better started indoors and transplanted after danger of frost for earlier and more enduring blooms. Won't flower when night temperatures drop below 50°. Clarkia doesn't like heat so keep it mulched and moist during high summer. Harvest for cuts with 3–6 flowers opened. Lasts 5–10 days in the vase. *This is the last year we will offer unless sales improve.* ~3,500 seeds/g. ②

A=1g, $1.00 **B**=7g, $2.50 **C**=28g, $5.00

CLEOME *C. hassleriana*

The old-fashioned spider flower sets large open flower clusters with very long stamens atop 4' stalks. Blooms throughout the summer and likes the hot and dry conditions of midsummer. For better germination, prechill seeds in refrigerator. Do not cover seed. Likes alternating day (80°) and night (70°) temperatures to germinate. **~450 seeds/g.**

5123WQ White Queen ③

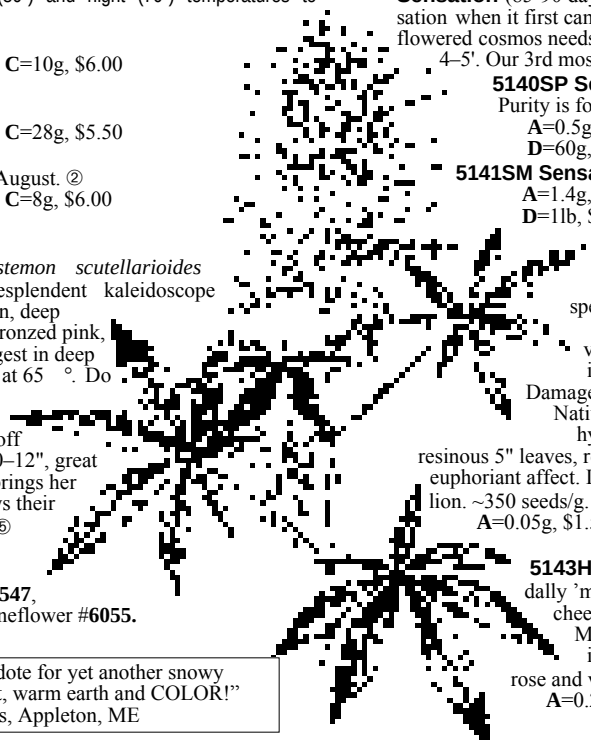
A=0.5g, $1.10 **B**=2g, $3.00 **C**=10g, $6.00 **D**=50g, $15.00

5126RQ Rose Queen ③

A=0.5g, $1.00 **B**=7g, $2.50 **C**=28g, $5.50 **D**=112g, $16.00

5129VQ Violet Queen Gorgeous in August. ②

A=0.5g, $1.10 **B**=2g, $3.00 **C**=8g, $6.00 **D**=32g, $12.00

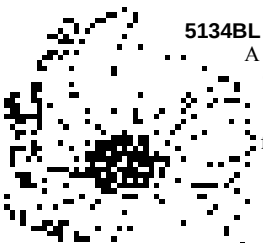


5131WI Wizard Coleus *Solenostemon scutellarioides* formerly *Coleus blumei* (45 days) A resplendent kaleidoscope of colors: rose and ivory edged in green, deep velvet burgundy centered with flame, bronzed pink, scarlet…12 in all. The colors are strongest in deep shade, lighter in part shade. Germinate at 65°. Do not cover. Takes 12 days. Do not overwater; subject to damping off. Easy to grow and maintain. Just pinch off any late-season flower stalks. Grows 10–12", great in window boxes and planters. Nikos brings her favorites indoors before frost and enjoys their magic all winter long. ~3,500 seeds/g. ⑤

A=0.02g, $2.00 **B**=0.1g, $6.00

Coneflower See Echinacea, #**4545-4547**, Rudbeckia #**5357-5360,** and Prairie Coneflower #**6055.**

"Your catalog is the perfect antidote for yet another snowy day…feeding dreams of bare feet, warm earth and COLOR!"
—Lillie Vitelli & Don Mansius, Appleton, ME

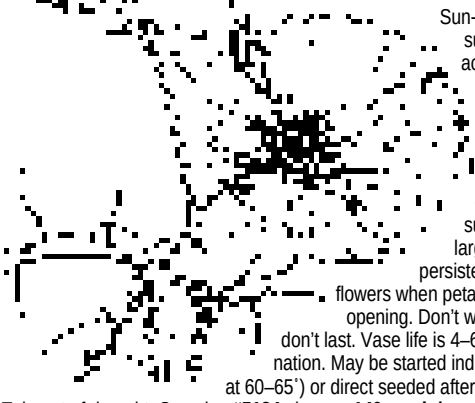


5134BL Bright Lights Mix Cosmos *C. sulphureus* A bright mix of 1½–2½" semi-double gold and orange flowers on 3–4' plants. Unlike the cosmos below, flowers form in loose clusters on lobe-leaved plants that are highly sensitive to frost. ~140 seeds/g. ②

A=1g, $1.00 **B**=7g, $2.50 **C**=28g, $5.50 **D**=112g, $12.50

COSMOS *C. bipannatus*

Sun-loving, free-flowering all summer, can serve as an accent, screen or cutflower. Colorful daisy-style flowers with yellow centers bloom amidst lacy cut foliage. Attracts a broad range of beneficial insects. For best results, thin its fast-growing large plants. Deadhead for persistent blooms. Harvest cutflowers when petals on first flower are just opening. Don't wait too long! Old blooms don't last. Vase life is 4–6 days. Light aids germination. May be started indoors at 70–75° (grow on at 60–65°) or direct seeded after last frost. Space 9–12". Tolerant of drought. See also #**5134** above. **~140 seeds/g**.



5135CR Cranberries Double Click My favorite color in this series, stunning dark maroon semi-double to fully double flowers have a lightly picoteed edge. Not the earliest to bloom but well worth the wait. Strong stems with attractive ferny foliage grow 2–3 ft. Was temporarily set back by excessive rains but made a good recovery. **NEW!** ⑤

A=0.2g, $1.80 **B**=0.6g, $3.50 **C**=3g, $14.00 **D**=12g, $45.00

5136DC Double Click Mix (100-120 days) These double and semi-double award-winning flowers are gaining lots of attention for their unique puffy blooms in shades of pink, plum and white. With sturdy stems, excellent for cutting, and prolific bloom until frost, this superior variety will make garden visitors do a double take. 4' tall. ⑤

A=0.2g, $1.50 **B**=0.6g, $3.50 **C**=3g, $11.00 **D**=12g, $38.00

5137PI Picotee (90 days) A unique bicolor cosmos for the aficionado. Flowers vary in hue from white to pink to rose, with each serrated petal edged in contrasting magenta. Plants grow 4' climaxed by blooms 2½–3" across. A beautiful addition to your cosmos bouquet. ②

A=0.5g, $1.00 **B**=3g, $2.50 **C**=15g, $6.00 **D**=1oz, $10.00

5139SS Sea Shells (100 days) If each petal on a Sensation were to curl into a tube, they'd have the striking delicate look of a Sea Shells. 3' plants come in the usual mix of pink, magenta and white shades.②

A=0.5g, $1.10 **B**=3g, $3.00 **C**=12g, $6.00 **D**=1oz, $9.00

Sensation (85-90 days) So named because its early maturity created a sensation when it first came out in 1930. Won AAS 6 years later. This large-flowered cosmos needs little tending. Withstands the first mild frosts of fall. 4–5'. Our 3rd most-popular flower.

5140SP Sensation Purity White blooms are sparse in the mix. Purity is for those who want white cosmos. ②

A=0.5g, $1.10 **B**=3g, $3.00 **C**=15g, $6.00 **D**=60g, $20.00

5141SM Sensation Mix Pinks, roses, magentas, occasional whites. ②

A=1.4g, $1.00 **B**=14g, $2.50 **C**=56g, $7.00 **D**=1lb, $30.00

5142WD Wild Dagga *Leonotis leonurus* No cowardly lion here. Also known as Lion's Ear, spectacular and exuberant with a series of orange tubular flowers clustered in collars along the stem. Showy vining shrub can grow 6' in a summer if started indoors in February. Surface sow; slow germinator needs light. Damaged by frost in the mid-20s and needs full sun to flower. Native to S. Africa where it is used for epilepsy, headache, hypertension, and stomach and bronchial problems. The resinous 5" leaves, rough on top and velvety underneath, are said to have a euphoriant affect. In East African legend Dagga imparts the qualities of a lion. ~350 seeds/g. ③

A=0.05g, $1.50 **B**=0.15g, $3.00 **C**=0.6g, $9.00

5143HQ Harlequin Mix Dahlia *D.* x *hybrida* If you like to dally 'mongst the dahlias, these bicolored buffoons are sure to cheer you. Semi-double 2½" blooms sit atop strong stems. Maroon-white and scarlet-yellow bicolors predominated in the trials but the mix also includes shades of orange, rose and violet. Early flowering 12–14" plants. ~125 seeds/g. ⑤

A=0.2g, $2.00 **B**=0.8g, $6.00 **C**=4g, $19.00

DIANTHUS spp.

The name comes from the Greek meaning 'divine flowers.' Some are carnations, some are commonly known as Pinks, not for their color, but for their serrated petal tips which look like they've been pinked. **~500s/g except where noted.** See also perennial #**6306** Sweet William.

Chianti *D. chinensis* Dropped for slow sales; *no longer available.*

5145RL Rainbow Loveliness Mix *D.* x *hybrida* As Stéphane Mallarmé put it, "Without charm there can be no fine literature, as there can be no perfect flower without fragrance." Rainbow Loveliness has the fragrance—glorious, heavenly, sinfully delicious, intoxicating, jasminy—and the good looks. The lilac white, which we grew, sports deeply fringed white blooms with hints of pink at the tip and a greenish center eye, creating a wispy feathery effect. This mix of border pinks also includes strains of carmine, pink and bicolored 1½" blooms in loose clusters. Blooms late July from early June transplanting. 14". ~1,200 seeds/g. ⑤

A=0.02g, $2.00 **B**=0.1g, $6.00

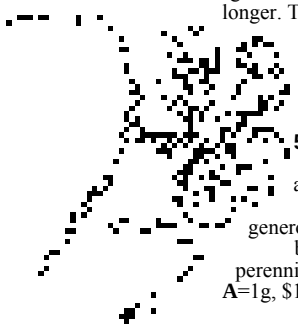
5146RG Reisen Giant Superb Mix *D. caryophyllus* 20" plants produce fully double fringed carnations in an array of colors (red, violet, rose, white and bicolor) with corresponding differences in fragrance. The perfumed clove scent of the red is the most tantalizing, reminiscent of the exquisitely scented flowers that one reads about in old horticultural lore. ②

A=0.2g, $1.10 **B**=1g, $2.50 **C**=3g, $5.00

5148DI Lacy Blue Didiscus *Trachymene coerulea* (95 days) Also known as Blue Lace Flower, introduced from Australia in 1828. Looks like a light blue version of Queen Anne's Lace. Airy flower heads on 2' stems floating like a blue mist above attractive finely cut foliage are excellent for cutting. Start indoors or direct seed after danger of frost. Transplant 8" apart. Likes full sun. ~360 seeds/g. ②

A=0.25g, $1.20 **B**=1g, $2.80 **C**=3g, $5.50 **D**=15g, $14.00

5149KJ Kilimanjaro Euphorbia *E. marginata* Also known as Snow-on-the-Mountain. If global warming continues, we'll have to give this a new name. A foliage plant grown for its ovoid green leaves that quickly become outlined in striking white. Interplant with bright flowers for good contrast. Well adapted to poor or average soils; grew about 2' in my dry raised beds but capable of reaching a foot taller. Janine Welsby said it repelled rodents from her sweet potatoes. Long-lasting in a vase where it provides valuable filler with good color base. Will self-sow. Start indoors at 60–68 °, grow on at 60°. Can be an erratic germinator, taking 10–14 days, sometimes much longer. Transplant out after danger of frost. *Caution: the milky sap may cause itching or rash for sensitive individuals. Do not rub your eyes after handling Euphorbia.* ~50 seeds/g. ③



A=0.3g, $1.10 **B**=0.9g, $2.50
C=4.5g, $7.00 **D**=27g, $32.00

5150SF Scarlet Flax *Linum grandiflorum* 'Rubrum' Five-petalled blooms up to 1½" across on bushy 1' plants. Bright red flowers with a silky sheen. For best effect grow a generous mass. Direct seed as soon as ground can be worked. Do not transplant. See #**6120** for perennial flax, *L. perenne*. ~300 seeds/g. ②

A=1g, $1.00 **B**=7g, $2.50 **C**=28g, $5.00

FLOWERING CABBAGE & KALE *Brassica oleracea*

Sometimes used for garnishes or in salad mixes. Well adapted to cold climates, they are at their best when most flowers have given in to fall frosts. **~350 seeds/g**.

5156FC Flowering Cabbage Mix Good ornamental for our climate. The colors—green outer leaves and pink, white or purple centers—deepen at the onset of chilly autumnal nights. Start indoors 5–7 weeks before setting out in midsummer for fall maturity. While weather is still hot, sidedress with manure so that the plants will make rapid growth before nights begin cooling. As autumn approaches, withhold nitrogen to speed coloring. 10". ②

A=0.25g, $1.20 **B**=1g, $2.80 **C**=4g, $5.00

5158RC Red Chidori F-1 hybrid. Flowering kale is called *Ha-Botan* in Japan, meaning 'leafy peony.' The Japanese are world leaders in hybridizing these ornamentals and, in Red Chidori, they have brought their work to its ultimate expression. Chidori had the brightest purple outer leaves and the sharpest red centers of any we tried. These colors reach their zenith shortly after frost when other garden hues are fading. Red Chidori leaves have finely ruffled edges which further accent their beauty. Allow enough space to grow 8–12" high and 12–14" across⑤

A=0.2g, $2.10 **B**=1g, $6.50

Osaka Mix Dropped for slow sales. *No longer available.*

Red Peacock Dropped for slow sales. *No longer available.*

5164FC Tall Mix Four O'Clock *Mirabilis jalapa* Also known as Marvel of Peru. The plant is anything but timid. Breck's in 1885 called it "a very desirable plant where there is plenty of room," and suggests each specimen should stand singly 3' apart. The fragrant trumpet-shaped flowers open in late afternoon, reaching peak glowing loveliness at dusk. The 2–3' plants make good background or annual hedge. Start indoors, transplant out when warm weather has settled in. Likes full sun. Will self-sow in warmer areas. Drought-tolerant. ~17 seeds/g. ②③

A=3g, 90¢ **B**=9g, $2.20 **C**=27g, $5.00 **D**=135g, $12.00

5165SG Sundance Bicolor Gaillardia *G. pulchella* These striking bicolor red and yellow blooms bring mahogany magic to your flower beds. The 12–15" plants spread a luxurious 16" and are covered with generous globe-shaped flowers. Sunloving plant has broad adaptation, very tolerant of heat and drought. Spread habit is ideal for hanging baskets and containers. Awarded both a Fleuroselect Gold Medal and an AAS citation. Sow indoors in spring and transplant out at 15" spacing. Likes alternating day (70-75°) and night (60-65°) temperatures to germinate. For perennial Gaillardia see #**6128**. ~600 seeds/g. ②

A=0.25g, $1.50 **B**=1g, $3.50 **C**=4g, $10.00

Daybreak Mix Gazania *G. rigens* Discontinued by the supplier; *no longer available.*

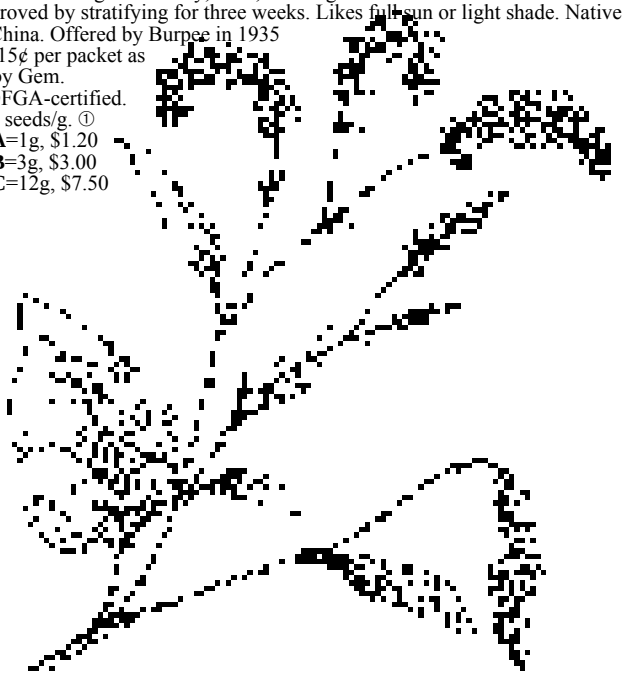
5172MH Marine Heliotrope *Heliotropium arborescens* (120 days) Native to Peru, an old-fashioned scented flower with a rich history. The aroma fills the garden on a cool damp day. Victorians edged their rose beds with heliotrope and it is still cultivated in Europe for perfumery. Smells like sweet violet, but deeper, and has been described as similar to vanilla, almond, or cherry pie. Works well in hanging baskets, containers, the front of borders, or any location where the scent will readily reach you. It may be transplanted indoors for the winter. 14–18" plants with deeply etched viburnum-like dark green leaves bear big flat clusters of tiny star-shaped royal blue flowers. Somewhat slow, erratic germinator, takes at least 2–3 weeks. ~1,500 seeds/g. ②

A=0.1g, $1.30 **B**=0.6g, $4.50 **C**=3g, $12.00

5175SE Super Elfin Pastel Mix Impatiens *I. wallerana* Impatiens is named for the way its seeds pop explosively out of their ripe pods. Freely branching 8–10" plants covered with masses of pastel colors: blue pearl, pink with a rose eye, salmon with a coral eye, white, coral, pink and salmon. Thrives in shade and requires little care. Start indoors, need light so surface-sow, 70-80°, takes 14 days to germinate, provide even moisture, do not overfeed, set out after danger of frost. Pinch blooms before they go to seed for best display. ~1,600 seeds/g. ⑤

A=0.03g, $2.00 **B**=0.15g, $8.00

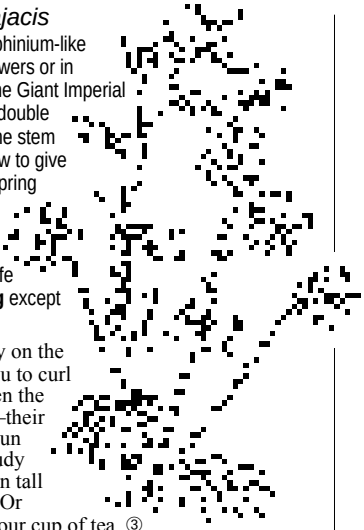
5176KO Kiss-Me-over-the-Garden-Gate OG *Polygonum orientale* It is easy to imagine an amorous meeting amongst the shelter of these 6–7' annuals, surrounded by large tassels of lightly scented pink blossoms and heart-shaped leaves! Our answer to the customer who gave us the best advice we've ever received: "Breathe and laugh a lot. Kiss someone pretty." Although transplanting temporarily sets it back, it grows vigorously to take up a full square yard at maximum size. Blooms from July to frost, sometimes self-sows. Start indoors at 70–75°, covering the seed, keeping soil moist till emergence. Fussy, slow, erratic germinator. Germination can be improved by stratifying for three weeks. Likes full sun or light shade. Native to China. Offered by Burpee in 1935 for 15¢ per packet as Ruby Gem. MOFGA-certified. ~20 seeds/g. ①



A=1g, $1.20
B=3g, $3.00
C=12g, $7.50

LARKSPUR *Consolida ajacis*

Formerly known as *Delphinium consolida*. Delphinium-like long-stemmed flower spikes are used as cutflowers or in dried arrangements. Upright 3–4' tall plants. The Giant Imperial series (#**5178**-**5194**) features long racemes of double flowers. Cut when one third of the flowers on the stem are open. Likes cool moist conditions. Very slow to give in to fall frosts. May be direct seeded in early spring or started indoors and grown on at 55˚ and set out in 8 weeks. Does not germinate well in warmer temperatures. Refrigerating for a week will improve germination. For cuts vase life is 6–8 days. Excellent for drying. ~**330 seeds/g** except Blue Cloud.



5177EG Earl Grey There's a kind of day on the Maine coast when the grey chill invites you to curl up with a cup of Earl Grey tea. That's when the subtle "cool" colors come into their own—their delicate shades can be washed out in full sun but reveal their shimmering clarity on cloudy days. This pearly grey-lavender larkspur on tall stalks fits nicely into such an atmosphere. Or perhaps enjoying it in a bouquet is more your cup of tea. ③

A=0.1g, $1.30 **B**=0.5g, $3.00 **C**=3g, $6.50 **D**=18g, $35.00

5178BS Giant Imperial Blue Spire Dark blue. ②

A=1g, $1.10 **B**=4g, $2.80 **C**=16g, $6.40 **D**=64g, $24.00

5179CR Giant Imperial Carmine ②

A=1g, $1.10 **B**=4g, $2.80 **C**=16g, $6.40 **D**=64g, $24.00

Giant Imperial White Spire Dropped for slow sales. *No longer available.*

5194MX Giant Imperial Mixed Pinks, purples, blues and white make a beautiful background, good for cutting. ②

A=1g, $1.00 **B**=4g, $2.50 **C**=16g, $5.00 **D**=4oz, $24.00

5198BC Blue Cloud *C. regalis* Blue Cloud doesn't shoot up a single spike like most larkspurs. Instead it sends flocks of bushy 5-petaled rich blue 1/2" florets on wispy foliage which, *en masse*, give the effect of clouds. Its tiny seed pods are equally decorative. Will self-sow vigorously. ~800 seeds/g. ②

A=0.1g, $1.10 **B**=0.5g, $2.80 **C**=5g, $6.40 **D**=50g, $20.00

LAVATERA *L. trimestris*

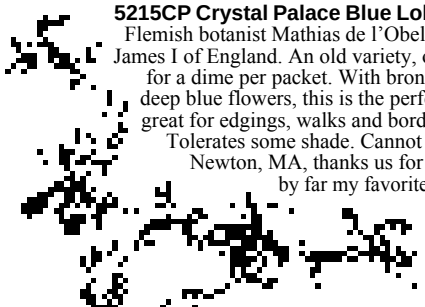
Also known as Herb Treemallow; botanical name honors the 16th-century Swiss naturalist brothers Lavater, and the three-month bloom time in warmer climes. Every stalk is covered with single funnel-shaped blossoms. Cut when flowers are unfurling or have just begun to bloom. Vase life is one week. Will survive light fall frosts. Start indoors at 70–72˚ 8 wks before setting out, growing on at 65–70˚ days and 60˚ nights, or direct seed in sunny spot. Space 18–24". **~150 seeds/g.**

5202LM Mix More than 80% pink shades (some light and some dark) and the remainder white. An explosion of exotic blooms on 2' tall bushy plants great for borders. Lasts in bouquets after most others have shrivelled. ②

A=1g, $1.00 **B**=4g, $2.50 **C**=16g, $5.00 **D**=64g, $12.00

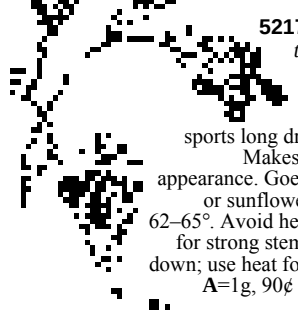
5210TG Tanagra Extra-large 4–5" deep rose flowers with lighter veining borne on robust 3' plants. ②

A=1g, $1.10 **B**=4g, $2.80 **C**=12g, $6.00 **D**=60g, $14.00



5215CP Crystal Palace Blue Lobelia *L. erinus* Named for the Flemish botanist Mathias de l'Obel who was a physician to King James I of England. An old variety, offered by Henderson in 1902 for a dime per packet. With bronze-green foliage and stunning deep blue flowers, this is the perfect window-box plant. 4" tall, great for edgings, walks and borders. Needs light to germinate. Tolerates some shade. Cannot stand frost. Susan Coombs of Newton, MA, thanks us for stocking Crystal Palace: "It's by far my favorite Lobelia." ~30,000 seeds/g. ②

A=0.2g, $1.30
B=1g, $3.00
C=4g, $5.50
D=28g, $28.00



5217LL Loves-Lies-Bleeding *Amaranthus caudatus* (90 days) Also known as Tassel Flower. Well-loved by cottage gardeners for more than 300 years. This vigorous 2–4' branching annual sports long drooping red tassels that hold until frost. Makes a good border; stake and tie for neater appearance. Goes well with bachelor buttons, nicotiana or sunflowers. Start indoors at 70–75°, grow on at 62–65°. Avoid heavy fertilization. Space at least 1' apart for strong stems. May be air-dried by hanging upside down; use heat for better color. ~1,500 seeds/g. ②

A=1g, 90¢ **B**=7g, $2.00 **C**=28g, $6.00

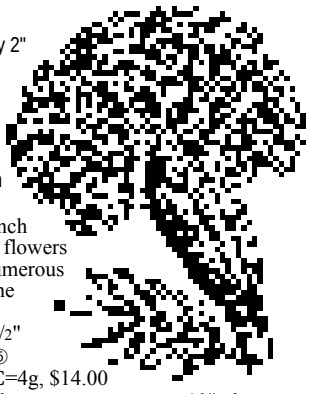
Mauritanean Malva *Malva sylvestris* var. *mauritania* Dropped for slow sales. *No longer available.*

MARIGOLD *Tagetes* spp.

"We do not consider a flower garden complete without the good old-fashioned French and African marigolds." –Breck's, 1885. Good for bedding, for cuts, in planters or borders. Their warm colors cheer all summer long and positively blaze in the light of early autumn. Native to the Americas and said to have been sacred to the Aztecs. In 1939 Burpee's Red and Gold hybrid was the first hybrid flower from seed offered commercially in the United States. Fast and easy to grow from seed. Sow after soil has warmed, or inside in a warm (75-80˚) spot, 3 weeks before setting out after danger of frost. Likes heat and full sun. Tolerant to drought. **~300 seeds/g** unless otherwise noted.

French Marigold *T. patula*

Small bushy plants with flowers approximately 2" across in a wide range of colors including yellows, oranges, rich reds, mahogany, and bicolors. Bloom styles, depending on the cultivar, can be single to crested to semi or fully double. Outstanding edging plants bloom early summer till frost and stand well in all weather.



5228AF Aurora Yellow Fire This French beauty lights our fires with bright yellow flowers inset with red flames. Extra early with numerous large flowers, consistently double from the first bloom to the last. The compact neat rounded 8–10" plants bear flat-petaled 2 1/2" blooms. Not day-length sensitive. PVP. ⑤

A=0.25g, $1.70 **B**=1g, $5.20 **C**=4g, $14.00

5230BR Brocade Mix Abundant color on neat, compact 10" plants. Ruffled double flowers in rust, yellow, orange, red and bicolors. ②

A=0.5g, $1.00 **B**=7g, $2.50 **C**=28g, $5.50

5232HQ Harlequin (85 days) Other striped marigolds we tried proved to be clowns without costumes, putting forth luxuriant foliage with almost no blossoms. But Harlequin is usually, though not always, floriferous here. An antique variety going back at least to the early 1800s, it sports stunning single maroon and yellow radially striped pinwheel flowers on 1–2' plants. Several fairgoers asked for this variety when they saw the zippy blooms in a bouquet at our booth. Send in the clowns! ②

A=0.25g, $1.20 **B**=1g, $2.80
C=5g, $6.00 **D**=20g, $16.00

5233LD Lemondrop A beautiful true yellow extra-dwarf crested variety. Blooms early, through summer into fall. 6–8". ~640 seeds/g. ②

A=1g, $1.10 **B**=7g, $3.20 **C**=28g, $11.00

5234QS Queen Sophia (60 days) Award-winning anemone-flowered dwarf. Each plant produces many bicolored double blooms. Flowers are deep rusty orange and, as they mature, petals are edged with gold. Named for Queen Sofia of Spain. Voted second-most popular AAS flower. 10–12". ②

A=0.7g, $1.50 **B**=3.5g, $5.00 **C**=14g, $12.00

5235SP Sparky Mix Combines yellow, gold, orange and red blooms on free-flowering compact 10–12" plants. Double flowers are 2–2 1/2" wide with smoother petals than Brocade. Darold Decker introduction from the late '50s. ②

A=1g, $1.00 **B**=7g, $2.50
C=28g, $5.00

5236TO Tashkent OG (100 days) These pretty singles are very floriferous, especially as first frost approaches. Long blooming period begins early July. Each blossom has eight deep maroon-red petals with frilly edges and strong yellow centers. 12–14". Biodynamically grown but not BD certified. Stellar NOP-certified. **BACK!** ①

A=1g, $1.30 **B**=3g, $3.40
C=9g, $7.50

Weight equivalents

1 gram =	.035 oz
2 grams =	.070 oz
3 grams =	.106 oz
4 grams =	.141 oz
7 grams =	.247 oz
10 grams =	.355 oz
14 grams =	.494 oz
15 grams =	.528 oz
20 grams =	.710 oz
28 grams =	.987 oz
100 grams =	3.53 oz or .220 lb
112 grams =	3.95 oz or .247 lb
225 grams =	7.93 oz or .496 lb
340 grams =	11.99 oz or .750 lb

Signet Marigold *T. tenuifolia*

Also known as Gems, once known as Mexican marigolds, date back to 1798. Bloom prolifically with edible 3/4" single flowers with yellow centers and a lemony fragrance. Chinese Forget-Me-Not makes a great background plant to the Gems. Compact mounded plants have finely cut ferny foliage. They don't need deadheading, but benefit from a light shearing in hot weather and from watering in dry spells. **~1000 seeds/g.**

5243LG Lemon Gem (68 days) Compact 10–12" plant bears tiny bright lemon-yellow flowers early, through summer, into fall. ②
A=0.5g, $1.40 **B**=1.5g, $3.50 **C**=6g, $8.00 **D**=24g, $19.00

5246TG Tangerine Gem (68 days) As above, but the tiny fragrant flowers are deep orange. They make colorful tasty additions to salads. ③
A=0.5g, $1.40 **B**=1.5g, $3.50 **C**=6g, $8.00 **D**=24g, $19.00

African Marigold *T. erecta*

Tallest of the marigolds with largest leaves and flowers. Blooms are fully double and 3–4" across, resembling carnations. Plants make a bold highlight in large borders and crank out cuts.

5250FL First Lady Voted the all-time favorite AAS flower. Lovely 20" border or hedge plant, covered with sunny yellow 3 1/2" double flowers that keep coming till frost. ⑤
A=0.1g, $2.60 **B**=1g, $12.50

5251NC Inca II Mix Fitting sequel to the original Inca series, but stronger, earlier by 7–10 days, and more compact with a new primrose-yellow joining the original yellow, orange and gold. Produces enormous 4" fully double brilliantly colored blooms. Great for massed borders, these compact 12x14" plants allow you to pack them in. Remove spent flowers to promote new blossoms and maintain a clean look. Likes moist well-drained soil. Withstood the 2011 hurricane deluges with exceptional aplomb. ~400s/g.⑤
A=0.1g, $2.60 **B**=0.3g, $7.00 **C**=1.2g, $20.00

5253VA Vanilla Formerly known as Sweet Cream and actually resembles sweet creamy farm milk—outstanding off-white color. Profuse large 3–4" double blooms on stocky 18" plants until frost. Use for cutting or keep deadheaded to maintain Vanilla's classy good looks. ⑤
A=0.05g, $2.40 **B**=0.2g, $6.00

5254CR Crackerjack Mix Early mix of orange, gold, yellow. Large fully doubled flowers on tall 30" plants that rarely need staking. ②
A=1g, $1.00 **B**=14g, $2.50 **C**=56g, $6.50 **D**=224g, $18.00

Mexican Sunflower See *Tithonia* #**5459**-**5460**.

5263MN Mignonette *Reseda odorata* "Mignonette should not be forgotten, on account of its delicious odor." –Breck's, 1885. Once fashionable on the balconies of Paris, popular enough to command 7 listings in the 1935 Burpee catalog, it has seemingly lost its cachet. However, a revived interest in scent could reverse the trend, for Mignonette is among the most fragrant. Its insignificant yellow-green blossoms send the enticing scent of raspberries wafting through the air. Less than a foot high, it can be grown in pots and moved for best effect; however its scent will fade if it is removed from full-day sun. Direct seed, do not cover. Make succession plantings for continuous blooms. Prefers fertile well-drained soil and cool weather. Burpee claimed a light sandy soil brings out its most pronounced perfume. ~750 seeds/g. ②
A=1g, $1.00 **B**=4g, $2.50
C=16g, $6.00 **D**=64g, $12.00

MORNING GLORY *Ipomoea* spp.

Easily grown climber with trumpet-shaped flowers provides color and shade, decorates fence or post. Plant with eastern exposure for best results. Nick seeds with a file and soak overnight to speed germination. Germinates in 2 weeks at 75–80˚. Sow outdoors after danger of frost or indoors in peat pots as they resent transplanting. Overly rich soil will yield excess foliage and sparse blooms. **~25 seeds/g.**

5270CM Carnivale de Venezia Striped Mix *I. purpurea* 6' vigorous climbers quite striking with their masses of white flowers, some with blue stripes, some with pink, some with both in a wide array of diverse patterns. The effect is more cheery and naive than the full range of exotic masks and costumes displayed in the annual Carnival of Venice. More like a carnival pinwheel handpainted in the '60s. Plant them where they'll brighten up your morning. ③
A=1g, $1.10 **B**=3g, $3.00 **C**=15g, $10.00
D=90g, $35.00

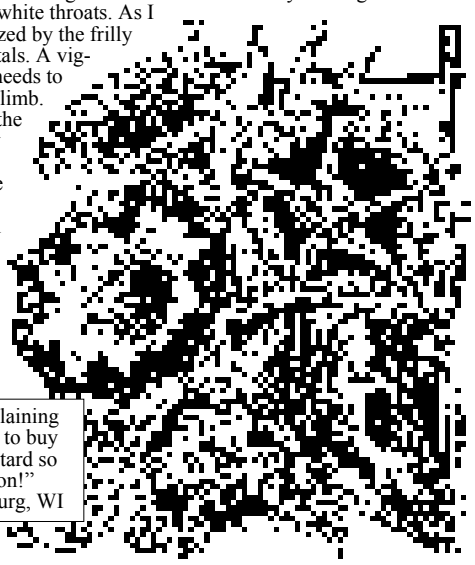
5271FS Flying Saucers *I. nil* This is the floral version of ET, the blooms like pods from another world. Actually Sputnik had been in space only three years, and the lunar landing was still to come when seedsman Darold Decker created these gaudy 4" open trumpets. Bicolor features clear white cups streaked with sky blue. The swirly blue patterns create the ethereal saucer effect that inspired its name. Can be brought inside in the bud stage for a week-long show as the amazing blossoms unfurl their patterns. Climber grows 8–10'. ②
A=1.5g, $1.00 **B**=6g, $2.50
C=18g, $5.00 **D**=54g, $12.00

5272HB Clarke's Heavenly Blue *I. tricolor* (115 days) Intense azure lightens toward center; a sun-loving vine. 12'. ③
A=3.5g, 90¢ **B**=14g, $2.50
C=56g, $7.00 **D**=1lb, $28.00

5275KO Kniola's Purple OG *I. p.* (50 days) Beautiful glowing rich deep purple flowers vibrate against lush green foliage. Unlike most other morning glories, Kniola's starts blooming while it is only 2' tall and still vining. As the vines climb on to 8–9', the blooms continue, lasting the entire season. The deep blooms have a magenta star that radiates out from their pale pink-white throats. An heirloom discovered by Mr. Kniola at an abandoned farm in Indiana. Nicholas Lindholm acquired seed from J.L. Hudson in 1993, thence passed it on to Roberta Bailey who has been maintaining it and culling out the magenta off-types. MOFGA-certified. ①
A=0.25g, $2.30 **B**=1g, $7.50

5277SH Scarlett O'Hara *I. n.* Very large wine-red flowers on 10' vines. Won 1939 AAS shortly after publication of *Gone with the Wind*. ②
A=3.5g, $1.10 **B**=14g, $3.20
C=56g, $10.00 **D**=224g, $36.00

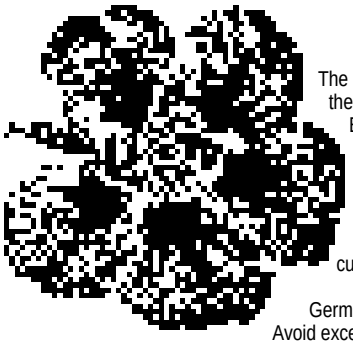
5278SS Sunrise Serenade *I. n.* A recently rediscovered heirloom double morning glory. I first caught a glimpse of an unstaked plant snaking along in the undergrowth of a friend's garden and was arrested by the large 1–3" ruby-red blooms with white throats. As I bent closer, I was amazed by the frilly slightly wavy extra petals. A vigorous 12–15' plant, it needs to be tied up in order to climb. When thus displayed, the flowers contrast nicely with the heart-shaped green leaves. Often the first morning glory to bloom, also stays open longer than the singles. ⑤
A=0.3g, $1.60
B=1.2g, $5.50
C=6g, $14.00
D=24g, $50.00



"I've seen people complaining that you are too Marxist to buy from. I'm a commie bastard so please, keep on keepin' on!"
—Caleb York, Fitchburg, WI

…I am constantly thinking of all our people—unemployed and employed alike—of their human problems, their human problems of food and clothing and homes and education and health and old age. You and I agree that security is our greatest need—the chance to work, the opportunity of making a reasonable profit in our business—whether it be a very small business or a larger one—the possibility of selling our farm products for enough money for our families to live on decently. I know these are the things that decide the well-being of all our people.…

…We are a rich Nation; we can afford to pay for security and prosperity without having to sacrifice our liberties into the bargain.…
Fireside Chat 4/14/38



NASTURTIUM

Tropaeolum majus

The name literally means 'twisted nose,' from the Latin *nasus* for nose and *tortus* for twist. Edible flowers with spicy sweet fragrance lend a peppery-sweet taste to salads, with each color adding contrast and subtle variations in flavor. Round leaves also edible. Formerly used as a remedy against scurvy. Blooms keep coming if cut, needs moisture and cool temperatures for optimal blooming. Intolerant of frost. Germinates 7–10 days at 65˚. Cover the seed. Avoid excess nitrogen, but don't relegate nasties to the worst soil. Likes full sun. Start indoors or direct seed after last frost. **~6 seeds/g.**

5280AL Alaska Mix (60 days) Striking variegated green and white foliage will make a formidable bush if you feed it heavily. But go easy on the nitrogen if you want to eat lots of its tangy yellow and orange blossoms. A great plant for hanging baskets. 16". ②
A=2g, $1.00 **B**=8g, $2.50 **C**=24g, $5.50 **D**=1lb, $28.00

5282EI Empress of India (60 days) Hailed as a "great novelty" when introduced in 1884, and still popular today. Dark purplish-green leaves and stems make a perfect background for the brilliant crimson-scarlet flowers that stand out in bold relief. Spicy hot flowers live up to the promise of the plants' lovely olive toning. A good contrast with other varieties in your nasturtium patch. Do not feed heavily. 16" plants. ②
A=3g, $1.00 **B**=9g, $2.50 **C**=27g, $7.00 **D**=1lb, $42.00

Jewel Mix (42 days) Bushy variety holds bloom above foliage. Early free-flowering blend of colors. 16". 2nd only to Autumn Beauty sunflower among our best-selling flower varieties.

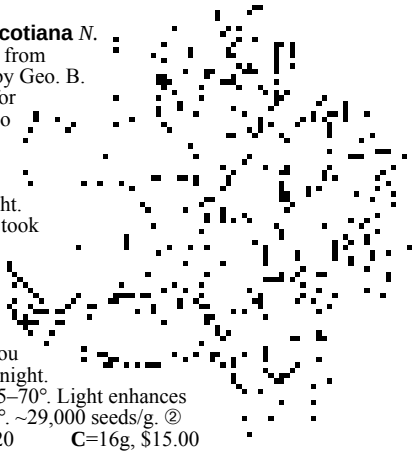
5288JM Jewel Mix ②
A=4g, $1.00 **B**=16g, $3.00 **C**=64g, $10.00 **D**=1lb, $32.00

5289JO Jewel Mix OG BACK! CCOF-certified. ③
A=4g, $1.40 **B**=16g, $5.00 **C**=64g, $18.00 **D**=1lb, $60.00

5290PM Peach Melba *T. minus* (60 days) Named for the dessert—peaches with raspberry sauce—Escoffier created to honor 19th-century operatic soprano Nellie Melba. Recommended by Eva Sommaripa and other growers who treasure its unique delicacy. Primrose-cream blossoms with pearly red centers look like miniature cut peaches with dollops of sauce. Sets its abundant blooms above the compact lily-pad foliage. Seed is expensive but worth it.②
A=1g, $1.40 **B**=4g, $4.00 **C**=16g, $12.00 **D**=64g, $30.00

5292WB Whirlybird 7-Color Blend *T. minus* (60 days) Has large spurless upward-facing flowers borne above the foliage. Compact non-trailing plant habit. Recommended for commercial growers. 12" plants.③
A=2g, $1.00 **B**=6g, $2.50 **C**=24g, $6.00 **D**=1lb, $48.00

5296TC Tall Climbing Mix (65 days) Tall trailing mix to 2' in red, orange, gold and exquisite bicolor shades. The red blossoms have a spicier taste than those of lighter colors. Plants will spread and fill in a huge space but having no tendrils cannot, strictly speaking, climb. The most prolific blossom set of any of the nasturtiums we have tried. ②
A=4g, 90¢ **B**=28g, $2.50 **C**=84g, $6.00 **D**=1lb, $25.00



5300LN Only the Lonely Nicotiana *N. sylvestris* Arrived in cultivation from Argentina in 1899 and offered by Geo. B. Haskell Co. of Lewiston, ME, for a nickel per packet in 1904. Also known as Woodland Tobacco, featuring clusters of drooping tubular white blossoms that perfume the garden day and night. In dwarfing nicotiana, breeders took away its fabulous fragrance. Gangly Lonely, a stately 5', delivers the full powerful scent its more compact cousins lack. Plant it near a door or under your bedroom window where you can enjoy the aroma during the night. Germination is 10–12 days at 65–70°. Light enhances germination. Grow on at 50–55°. ~29,000 seeds/g. ②
A=1g, $1.20 **B**=4g, $4.20 **C**=16g, $15.00

5303RM Royale Mix Painted Tongue *Salpiglossis sinuata* Annual from the Andes noted for its exquisite velvety texture. Popular as a cutting flower in Victorian times, it was often planted in geometric patterns in an art form known as mosaiculture. Extremely floriferous 15–20" plants produce masses of elegant 3" trumpet flowers in a broad range of colors from chocolate, red, purple and yellow to purple-orange and pale blue bicolors. Germinates in 15 days at 70°. Likes long days, lots of light and cool nighttime temperatures (50°) to grow on. Set out in a location with partial shade, good drainage and protection from the wind. Deadheading prolongs blooms. ~4,500 seeds/g. ④
A=0.01g, $2.00 **B**=0.05g, $6.00

PANSY *Viola* x *wittrockiana*

Burpee's in 1888 called the pansy "the most popular of all flowers grown from seed," and sold more than 100,000 packets per year. James Vick's Sons sold 27 different kinds and mixtures in 1895. For thoughts, remembrance, from the French *pensée.* Old-fashioned bedding plant thrives in cool moist conditions. Start 2 months prior to planting in a cool (60–65˚) place. Cover seed to germinate. Takes about 12 days. Grow on in very cool temperatures—preferably below 50˚. Likes partial sun. **~700 seeds/g.**

5304BG Blueberry Glow *V. cornuta* 10–12" with 1" flowers. Rusty brown lower edge shades into a dark burst edged with gold, then to a violet and pale violet at the top edge. Yellow center. All that shading gives a multicolored effect. Was still growing strong for Donna Dyrek after two winters and blooming exuberantly on Oct. 2. ④
A=0.02g, $1.80 **B**=0.1g, $5.00 **C**=0.4g, $12.00

5305JJ Jolly Joker All-America winner. Does not display the familiar flat "face" we've come to expect on our pansies. Instead its vibrant color combination of orange and purple will make you take notice. One of the hardiest pansies, as well as one of the slowest to "stretch." 8". ②
A=0.1g, $2.00
B=0.5g, $6.00

5306SG Swiss Giant Regular Mix Flowers display their cheerful faces in a wide range of colors, with best color in cool of spring. 6" plants good for bedding or borders. Not recommended for commercial growers. ②
A=0.1g, $1.20 **B**=1g, $3.00
C=4g, $6.00

PETUNIA *P.* x *hybrida*

"If I were limited to one flower with which to decorate my home I would choose Petunias." –Park's Flower Book, 1934. Start indoors at 70–75˚ and grow on at same temperatures for 8 weeks before setting out after danger of frost. Do not cover seeds; light aids germination. Use loose medium and avoid overwatering. Drought-tolerant sun lovers. All F-1 hybrids. **~10,000 seeds/g.**

5308DD Daddy Mix "Who's your daddy?" It's a hybrid, so we don't know. Very showy grandiflora has big 4" ruffled blooms in shades of light blue, orchid, peppermint, pink, plum and strawberry with darker veins. Stunning in baskets, these uniform plants also exhibit good weather-tolerance when planted in full sun. 12–15". ⑤
A=0.03g, $2.60 **B**=0.12g, $8.50

Wave Series Petunia

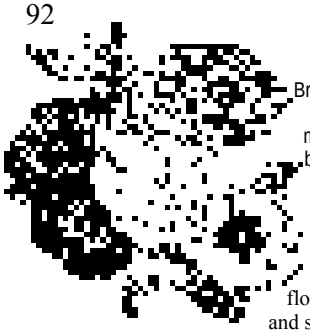
The Wave has caught on with our customers. Each plant carpets the ground with a 4x4' spread of vivid color. This versatile landscaping tool can be used as a low hedge, as a ground cover, or trailing from pots. Wave showed extreme drought tolerance in our trial, sailed through light frost, and bounced back after torrential rain. Although never deadheaded or cut back, the 3" flowers just kept coming and coming. Plant in full sun where its robust performance and light fragrance can sweep you away. All varieties pelleted seed, packed by count and shipped in protective vials to avoid crushed seed.

5309BW Blue Wave Suggested by Nan King of Walpole, NH. She prefers Blue Wave's plant habit to that of Purple, finding it less rangy, more floriferous and the foliage better at covering the underpinnings. Has bluish-purple flowers and mounding appearance that spreads large. ⑤
A=10 seeds, $2.20 **B**=40 seeds, $8.00

5310PW Pink Wave Pink, with white throats. ⑤
A=10 seeds, $2.20 **B**=40 seeds, $8.00

5311PU Purple Wave Vivid fuchsia. 1995 AAS. ⑤
A=10 seeds, $2.20 **B**=40 seeds, $8.00

5312TW Tidal Wave Silver Despite its name, more a very pale purple than silver, with darker purple veining. ⑤
A=10 seeds, $2.20 **B**=40 seeds, $8.00



PHLOX *P. drummondii*

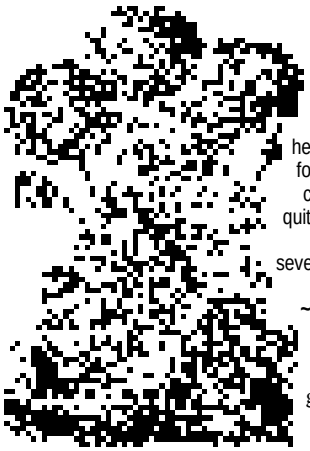
Breck's sold 15 different kinds in 1885. The word phlox signifies 'a flame.' Phlox is among the most colorful annuals for summer and fall beds, borders or window boxes. Start early indoors or direct sow in spring. Likes moist well-drained soil in full sun. One of the longest lasting in the vase. About the last to succumb to frost. For perennial phlox see #**6234**. **~500 seeds/g.**

5313PH Drummondii Mix Large-flowered mix of crimson, scarlet, pink, white and salmon with white eyes. 6–8". ②
A=0.4g, $1.00 **B**=2g, $2.50 **C**=8g, $5.50

5315TW Twinkle Also called Sternenzauber. These cuties are short 8" little bicolored stars in typical phloxy colors: white with shades of pink, lavender, purple and red. The blossoms have little star points with white edges, hence the twinkle. ②
A=0.4g, $1.10 **B**=2g, $2.80 **C**=8g, $6.00

Imperial Mix Pincushion Flower *Scabiosa atropurpurea* Dropped by our supplier; *no longer available.*

Pinks See Dianthus, #**5145**-**5146**.



POPPY *Papaver* spp.

Sensuous luxurious flowers, about 2½-3' tall. Need light to germinate. Sow outside in spring after frost or sow in fall for early blooms the following summer. Thin to 9–12". Like full sun. Will self sow. We offer two heirloom breadseed varieties especially suitable for baking. Poppies make wondrous cutflowers: choose buds that have straightened up but not quite opened. Immediately sear the cut stem with a lighter and put in water. Poppies open after several hours—an austere bouquet in the evening can become a riot of colors by the next morn. **~2,000 to 7,000 seeds/g**.

5318EO Elka OG An unusual double-purpose poppy sporting enormous seed heads up to 1½" wide and 2" high in good years, somewhat smaller in drought. All the heads are now unvented so that the seed is not broadcast. From Chrenovec in central Slovakia, where families used to grow both the black Breadseed poppy and white-seeded Elka, and collected 50 kilograms of each for a year's cooking. When walnuts became widely available in stores, Elka almost completely disappeared. Lacks the distinctive flavor of the Breadseed variety but sweeter, with a more nutlike taste, none of the bitterness, and over 50% more oil content, making perhaps the best edible oil in central Europe. Plants grow 4' with white-lavender single blossoms, like calcium-rich soil, don't transplant well. For best results thin to at least 5–6" apart. Some folks tie a group of plants together for support against wind breakage. Isolate from other poppies by at least 250' if you wish to save seed. ☙1995. MOFGA-certified. ①
A=0.1g, $1.20 **B**=0.3g, $3.00 **C**=1.2g, $6.00 **D**=6g, $12.00

5320ZO Ziar Breadseed OG Unusual twin to # **5318** Elka bred to eliminate the vents in its large seed head so the blue seeds stay in the heads to be collected. Ornamental single pink to red petals with centers ranging from pale red through dark colors. Although the first batch of seeds had some difficulty adapting to the cold climates of Canada and Maine, Ziar has been selected over the past 20 years for better cold survival. Slovakian variety once a mainstay of the local cuisine. ☙1996. MOFGA-certified. ①
A=0.1g, $1.20 **B**=0.3g, $3.00 **C**=1.2g, $6.00 **D**=6g, $12.00

5322BP Black Peony We'd seen poppies in a lot of different colors, but never one like this fully double ruffled flower of the deepest purple, almost black. Strong tall stems. 2'. ⑤
A=0.2g, $1.10 **B**=1g, $2.80 **C**=5g, $5.50

5324CO Carnation Rose OG Ruffled heavily doubled rosy 4–5" blossoms create splashes of color that make a spectacular show, even when viewed from afar. With each plant putting out a succession of blossoms beginning in July, its beauty extends through mid-August, though the first blooms are the richest. Foliage is a distinctive glaucous light green. Broadcast seed in spring. Thin for robust plants, richer blooms. A prolific self-sower. An old type of passalong plant; a mix was offered by J.M.M. McGullough's Sons 1885 seed catalog in Cincinnati, OH. OT-certified. ①
A=0.2g, $1.20 **B**=1g, $3.00 **C**=7g, $6.00

5329DF Danish Flag According to legend, Denmark's flag came from the sky to King Valdemar II in 1219. The origins of the *Danebrog* or Danish Flag poppy, are more obscure but predate 1888. Flag is named for the white spots at the base of the petals which form a cross in the center of the brilliant scarlet flowers somewhat mimicking the Danish flag. The lush single blooms, more than 4" across with fringed petals, sit atop 27" stems with blue-green foliage. After the showy blooms, the attractive large seedheads are ideal for drying. ③
A=0.2g, $1.10 **B**=1g, $2.50 **C**=7g, $5.50

5330QO Drama Queen OG I cringed when I first heard this name from Donna and Nikos. Surely another egregious example of the hyperbole of those shameless variety-namers. Not this time. The Lindsay Lohan of poppies is everything its name suggests. That could explain why it's such an oft-photographed cultivar on the internet. Petals are deeply cut with irregular pointy fringes, and shaded with deep purple and violet near the center which morphs to vivid raspberry toward the edges. Yellow-green centers with prominent creamy-yellow anthers accentuate the 4–5" flower. Either gorgeous or hideous, depending on your point of view, but undeniably dramatic. 3' tall. MOFGA-certified. *Members-only special! See p. 10 to join our coop as a consumer member.* **NEW!** ①
A=0.2g, $1.40

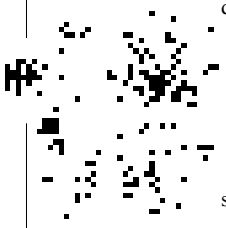
5331FO Flemish Antique OG An old-fashioned cottage garden charmer adds a touch of Victorian elegance. Whorled petals of creamy ivory brushed with touches of salmon-red in singles, semi-doubles and doubles now true to the original strain. Blue-green foliage makes an intense backdrop for these 4" peony blooms. 3' plants stood the rains with aplomb and were still blossoming in October. Very showy in indoor arrangements. After the blooms are done, the large blue-green oblong seedpods are highly prized as everlastings. WA-certified. ①
A=0.2g, $1.10 **B**=1g, $2.50 **C**=5g, $5.50

5332RO Fluffy Ruffles OG This is the closest we have seen to a pompon poppy. Though not a full pompon, the fringes on the petal ends give it that spider-aster look. The full range of colors includes red, pink and white. Reblooms after deadheading, though the blooms are smaller. 3'. MOFGA-certified. ①
A=0.2g, $1.10 **B**=1g, $2.50 **C**=5g, $5.50

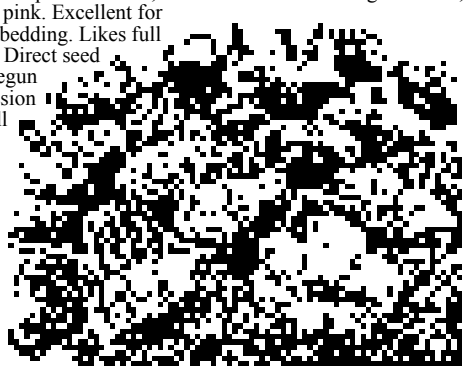
5333LB Ladybird Not a reference to Lady Bird Johnson though it might be appropriate to name a flower for her since she was instrumental in decorating our highways with wildflowers when she was first lady. Ladybird is instead British for ladybug, as the four black dots in the center of these fire engine-red blooms make a more-than-fanciful resemblance to the beloved beetle. Compact 1½" delicate single blooms atop wiry 15" stems. This cottage variety, great for edging the flower garden, dates back to 1876. Bloomed June 30 from a May 2 planting. ④
A=0.2g, $1.20 **B**=1g, $2.80 **C**=4g, $6.00

5334LO Large Lavender OG Passed along to Jeanne Griffin by a German friend, these tall poppies bloom in July with 2 ½–3" single flowers that have exquisitely shaded and fringed petals. Long blooming period. Large 1" seed pods can be used in dried arrangements. MOFGA-certified. ①
A=0.2g, $1.10 **B**=1g, $2.80 **C**=4g, $6.00

5346SH Shirley Double Choice Mix Also known as Corn Poppy, was called Ghost or Fairy Poppy early in the century. Elegant semi-double blooms all summer in shades of pink, rose, salmon, scarlet and white. The name Shirley refers to the town in Surry, England, where the Rev. Henry Wilkes originally raised the variety. It was relatively new in 1890 when Hallock's Famous Long Island Seeds said it was "conceded by all to be still the finest Novelty that we can give you this spring. The flowers are like fairy work…so silky and tissue-like do they appear. Bending and trembling with life-like beauty, the surface is a perfect shimmer of light and color." 2½' tall. ②
A=0.7g, $1.00 **B**=7g, $2.50 **C**=28g, $5.50



5352MB Mission Bells California Poppy *Eschscholzia californica* The state flower of California sports colorful, semi-double 2–3" orange flowers, occasionally yellow or pink. Excellent for borders, rock gardens, bedding. Likes full sun. Do not transplant. Direct seed in May after soil has begun warming. Make succession plantings for blooms all summer. 2'. ~650 seeds/g. ②
A=0.5g, $1.00
B=2g, $2.50
C=6g, $5.50
D=24g, $12.00



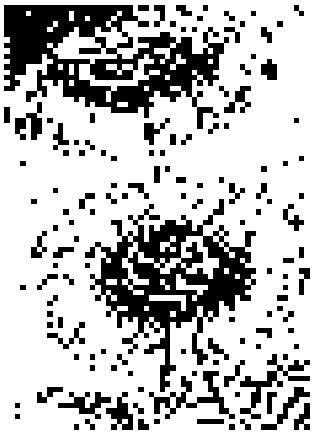
5354MT Yellow Mexican Tulip Poppy *Hunnemania fumariifolia* The contrast couldn't be greater between the two poppies we are adding to the catalog. If you want more drama in your life, go visit # **5330**, but if you prefer silky, dainty and delicate to showy, gaudy and garish, this is the one for you. Its classic lemon-yellow tulip-shaped blooms sit atop lacy ferny grey-green foliage that looks almost plastic from a distance. Although said to dislike wet feet, it bloomed almost continuously all late summer and early fall, recovering valiantly from the drenching rains of the three consecutive hurricanes. A generic form of a cultivar dating from 1934. 2'. **NEW!** ③
A=0.2g, $1.40 **B**=1g, $3.50 **C**=5g, $10.00

"Thank you for your always uplifting and immensely entertaining catalog!"
—Deborah Farber, Blackwater Farm, Vineyard Haven, MA

5356TQ Tequila Mix Portulaca *P. grandiflora* (56 days) As Vick's said in 1895, "When everything else is perishing for lack of moisture, the portulaca will give its largest flowers and brightest colors." Tequila is an improvement on the Sundial Mix with better and brighter colors, less day-length sensitivity and more tolerance to cool wet conditions. These compact low-growing trailing plants take off quickly with good vigor. Not the least bit muted, the brilliant pink, yellow, orange and cherry red blooms began on July 6 from an Apr. 24 start. The spreading 3–4" plants are good in hanging planters and most colorful in massed plantings. Excel in drought, thrive in sandy soil, full sun. Blossoms close in cloudy weather and late afternoons although they persist a little longer than the Sundials. Easy to grow. Chill seed for 2 weeks, then start in a warm (70–85 °) spot, needs light to germinate. ~9,000 seeds/g. ⑤

A=0.01g, $1.80 **B**=0.05g, $6.00

RUDBECKIA *R. hirta*



Named for Olaf Rudbeck (1660-1740), professor of botany at Uppsala in Sweden and a teacher of Linnaeus. Improved versions of these rugged North American native Black-Eyed Susans outstrip their wild counterparts in size and color. Drought-tolerant. Start indoors at 70˚ and do not cover the seed. Takes 14–21 days to germinate. Transplant out after danger of frost at 15–18" spacing. Likes full sun. See also perennial #**6269**.

5357GD Gloriosa Daisy These workhorses have lately fallen out of favor but deserve a place in your garden. Impervious to the hottest sun and the poorest soils, they reward even the novice with nonstop flowers from late July until fall frosts. Flowers up to 6" on 2–3' stems have the hues of mixed sunflowers: yellow, gold, orange and reddish brown, surrounding chocolate-brown centers. They enhance the border and can be brought inside as cuts. Start seeds directly outdoors as soon as the ground can be worked. Space about 1' apart. ~10 seeds/g. ②

A=2g, $1.10 **B**=6g, $3.00 **C**=24g, $6.50 **D**=72g, $18.00

5358GL Goldilocks (86 days) Brighten bouquets and beds with these 4" golden-orange blooms with deep-set brown eye. Long strong stems set on 24–30" plants make this an outstanding cutflower. Enough are fully double to give the effect of a patch of chrysanthemums. ~1,800 seeds/g. ②

A=0.1g, $1.50 **B**=0.3g, $3.60 **C**=1.2g, $8.50

Indian Summer (120 days) *No longer available.*

5360PS Prairie Sun (88 days) These are so pretty they will make you smile. Sixteen pointy golden petals with light yellow tips encircle a subtle green center. Flowers are very large and distinctive. Branching 24–30" plants have long stems, ideal for cut flowers. Judges on two continents were so impressed that they made Prairie Sun both an AAS and a Fleuroselect winner in 2004. ~1,500 seeds/g. ②

A=0.02g, $2.20 **B**=0.1g, $7.00

5361GS Gentian Sage *Salvia patens* It's hard to say whether magnificent blue blossoms or dynamic flower shape is this salvia's most exciting feature. Clear bright flowers are one shade lighter than cobalt blue. Each flower on the monkshood-like spike has a top petal "hood" that lunges across the pendant lower petals. Nikos and Susan marveled at these 2 1/2' plants at Rockefeller Gardens on Mount Desert Island. Flower spikes 12–15" long, good for cutting. Tender perennial needs good drainage, usually grown as an annual in the North. ~130 seeds/g. ③

A=0.1g, $1.30 **B**=0.3g, $3.00 **C**=1.2g, $6.00 **D**=6g, $24.00

5362ST Saluti Salvia *S. splendens* We salute this splendid salvia for its long-lasting color show in lilac, deep red, scarlet/white, salmon/pink and chartreuse/white. Long tubular brightly colored flowers protrude from even brighter bracts that sometimes provide the bicolor contrast. Healthy deep green foliage complements the abundant flower spikes. Start indoors in a warm place around 70 ° and grow on 6–7 weeks at about 65 °. Almost knee high. Early blooms. Supplier is discontinuing so this is the last year we will offer. We have 90 packets left at 83% germ. ~350s/g. ③

A=0.1g, $1.90

5363SB Signum Blue Salvia *S. farinacea* If you want masses of intense blue in your annual beds, Signum Blue is for you. Compact 12–18" plants with grey-green foliage have long-lasting 6–8" high deep blue flower spikes that bloom all at once and last for weeks. Start indoors in a warm place 10–12 weeks before last frost. Do not cover seed. Plant outdoors after danger of frost. Keep fairly dry for best foliage color. ~90 seeds/g. ②

A=0.1g, $1.20 **B**=0.3g, $3.00 **C**=0.9g, $7.00

5364BB Blue Bedder Salvia *S. f.* True blue flower spikes are abundant for weeks on bushy 3' plants. Grey-green foliage. Light aids germination. Start indoors in warm location (do not cover seed) 4–6 weeks before last frost, keep fairly dry for best foliage color, and transplant outdoors after danger of frost. ~900 seeds/g. ②

A=0.2g, $1.10 **B**=1g, $2.50 **C**=4g, $7.00

5365SC Angel Wings Schizanthus *S. pinnatus* Also known as Butterfly Flower or Poor Man's Orchid. Bring a hint of the exotic to your garden by growing this colorful array of delicate orchid-like flowers with pansy faces. Softly complementary shades of pink, violet and rose with contrasting blotched and stippled throats create the effect of an 18" fern covered by rare little butterflies. Bring cut sprays of bloom indoors for a touch of charm. Do not cover the fine seed with soil, but do cover flats or pots with a sheet of black plastic because darkness aids germination. Takes 1–2 weeks to germinate. ~1,517 seeds/g. ②

A=0.2g, $1.10 **B**=1g, $2.50 **C**=5g, $5.00

5369RS Rocket Mix Snapdragon *Antirrhinum majus* (120 days) F-1 hybrid very popular with commercial growers. We sold 148 B-size and 15 C-size packets. Its long stems and vibrant colors: pink, red, yellow, orange, white and orchid make Rocket the standard snapdragon for cutting. For local production of cuts, harvest when more than half the flowers are open. Will last 5–8 days. Withstands light fall frosts. Sow indoors at 65–75°. Do not cover the seeds. Grow on at 60°; warmer temperatures cause leggy transplants. Set out after danger of frost, spacing 9–12". ~5,800 seeds/g. ⑤

A=0.025g, $2.20
B=0.125g, $6.00
C=0.5g, $20.00

STOCK *Matthiola incana*

Old-fashioned bedding plant formerly known as Gilliflower, with multiple spikes of usually double flower clusters. Genus is named for Pierandrea Mattioli, a 16th-century Italian botanist, while *incana* means hoary or light grey, referring to its soft grey leaves. Good in beds, borders and containers. Tolerates frost to around 26˚F. For earlier blooms, sow indoors at 60–65˚ 6 to 8 weeks before setting out after danger of frost. Likes moderately fertile moist well-drained soil, full sun. Stocks are Crucifers; for good rotation, don't plant them where you recently had brassicas or follow them with members of that family. **~600 seeds/g.**

Early Giant Mix Dropped by the trade; *no longer available.*

Vintage Red We've replaced with # **5378** Vintage Mix. *Vintage Red is no longer available from us.*

5378VM Vintage Mix We're bullish on this fragrant mix of pink, lavender, red, rose, peach, yellow, copper and white bred for larger flowers and early bloom. About half will have fully double blooms. Sturdy well-branched 15–20" plants. Replaces Vintage Red. ⑤ **NEW!**

A=0.1g, $1.80 **B**=0.5g, $6.00 **C**=2g, $12.00

SUNFLOWER *Helianthus annuus*

Sunflower remains have been found in the Tabasco region of Mexico dating from 4,100 BCE. Prized for their seeds by humans and birds, and for cutflowers by market growers, sunflowers also add a lighthearted touch to gardens.

Prechilling seed aids germination. Easy to grow. Start indoors 3–4 weeks before last frost at temperatures of 65–75˚ or direct sow after frost, 3 to a pocket. Thin to best plant, 1' or more apart. Rich friable soil yields tallest plants, drought stunts growth. Will readily self-sow; for some fun leave a few volunteers in strategic locations. For cutflowers harvest when the flowers are almost completely open.

How much sunflower seed does Fedco sell in a year? About 14,000 packets for 225 lb.

Varieties open-pollinated unless otherwise indicated.

See also #**5506** Hopi Dye.

5400AO Autumn Beauty Mix OG (70-90 days) Our best-selling flower variety (3,400 packets), a 6–8' multibranching beauty. Produces a lovely mixture of earthen shades, petal colors ranging from bright yellow to bronze and purples. Most have a characteristic red ring enclosing a black center. Blossoms 4–6" across are perfect as the center of giant flower arrangements. Has pollen. CCOF-certified. ~45 seeds/g. ③
A=1g, $1.00 **B**=4g, $2.40 **C**=28g, $6.00 **D**=1lb, $40.00

5401FT Fantasia F-1 hybrid. Walt Disney's Fantasia, released in 1940, was the third full-length animated feature (not the first as we inaccurately reported last year), a dramatization of eight pieces of classical music. It became popular during the psychedelic sixties. One of the ballets was the Waltz of the Flowers from Tchaikovsky's Nutcracker Suite. Fantasia the sunflower was not in that dance, but easily could have been had it existed at the time. It merits classic status itself, with stately 4–5' stalks bearing 4–8" perfectly round pollen-free flowers. The best of 16 varieties in my 2003 grow-out. I noted a perfect blossom that opened with the month of September and was most gorgeous on Sept. 8. It was 5" across, yellow-orange with a striking dark brown center. Fantasia is a formula blend with colors ranging from white to darkest red, with double and semi-double flowers. Let the lights dim and the fantasy begin. ~22 seeds/g. ③
A=0.5g, $1.20 **B**=2g, $4.00 **C**=10g, $10.00

5402FL Florenza Attracted many comments in the sunflower trials at Common Ground Fair. Stunning brown-centered 6" flowers in maroonish red with yellow tips and a hint of yellow around the center. Mixes well with other sunflowers; makes the whole bouquet "pop." 3½' tall. ~40 seeds/g. ②
A=0.5g, $1.30 **B**=2g, $4.00 **C**=8g, $9.00 **D**=24g, $19.00

5403GH Green Heart F-1 hybrid. Stole the show and stole my heart with its bold display in the back bed of our Colrain, MA, spread. Had I planted more of them I think the golden-yellow blooms with their amazing 4" lime-green centers would have literally stopped traffic. These make compelling cutflowers and they are pollen-free. Tall straight single stems grow up to 5'. ~15 seeds/g. ③
A=0.6g, $1.80 **B**=2.4g, $6.00 **C**=12g, $16.00 **D**=36g, $40.00

5404JK The Joker (60 days) F-1 hybrid. If you need a New Deal in your sunflower patch, start with a new deck by adding this Joker, a bicolored pollenless beauty with two rings of petals. An interior short yellow fringe resembling eyelashes radiates from the brown disk and accentuates the big orangy-maroon yellow-tipped outer petals. Rated among the best sunflowers for cutting by horticulturalists at the University of Florida. Mottled red stalks grow 5–7' with multiple branching. We think FDR would have approved! ~22 seeds/g. ③
A=0.5g, $1.20 **B**=2g, $3.20 **C**=6g, $7.50 **D**=1oz, $22.00

5405LO Lemon Queen OG Luxuriant 8" blooms with lemon-yellow petals surrounding striking solid brown centers. Although it can grow up to 10' tall in rich soil, its powerful stems do not lodge. Likes high fertility; makes shorter stems and narrower petals in average soil. Not early; bloomed for Donna Dyrek in late August. CCOF-certified. ~45 seeds/g. ③
A=1g, $1.00 **B**=5g, $2.50 **C**=20g, $5.50 **D**=1lb, $45.00

5409GS Mammoth Grey Stripe (120 days) A traditional variety of giant (6–12') single-stem sunflower with large seed heads. The one to grow if you want to eat the seeds. Beloved by birds and kids. ~9 seeds/g. ②
A=14g, $1.20 **B**=56g, $3.00 **C**=224g, $10.00 **D**=896g, $28.00

5410MR Moulin Rouge (65 days) A favorite among commercial growers for its color, though not all stems are long enough for cutting. 5–6' multi-branching stems topped by gorgeous 5–7" dark-red pollen-free blossoms somewhat short-lived. Burgundy petals become almost black close to the disc. The Moulin Rouge was a nightclub in Paris where Toulouse-Lautrec created much of his work, using red-headed beauties as models. This sunflower would make a fine subject for such an exuberant artist. ~22 seeds/g. ③
A=0.5g, $1.30 **B**=2g, $3.00 **C**=10g, $9.00 **D**=40g, $30.00

Prado Red Supplier had only treated seed; *not available in 2012.*

Prado Gold Supplier had only treated seed; *not available in 2012.*

5413PL Pro-Cut Lemon (55 days) Pollen-free and day-length neutral, this sunflower was bred for the professional cutflower farmer but will please any gardener who likes splashy bouquets. 3–4" flowers have lemon-yellow petals surrounding a dark disc on 5' non-branching plants with strong stems. Makes the cut every time with its early blooms. ~22 seeds/g. ③
A=1g, $1.30 **B**=2g, $2.20 **C**=6g, $5.50

5414RE Ruby Eclipse (55 days) F-1 hybrid. We don't know if the ruby-red petals with lemon tips will eclipse all others but they are a vivid addition to any collection of sunflowers. The pollen-free 4–5" flowers with dark centers sometimes shade into pink but are gorgeous nonetheless. 6' branching plants. ~25 seeds/g. ③
A=0.5g, $1.20 **B**=2g, $3.20 **C**=10g, $10.00 **D**=40g, $30.00

5416SG Schnittgold Handsome single-headed 5' sunflower. Its double ring surrounded by deep yellow petals makes a striking display. The center pollen ring is black and flat, surrounded by an auxiliary ring of brown. *Schnitt* means 'cut' in German; with 8–10" blooms, this variety makes a superb cutflower. Karen Pratt of Wilmington, VT, points out that Schnittgolds, when mature, get a hollow in the center—perfect for making the sunflower bird wreaths sold in pricey garden catalogs. ~25 seeds/g. ③
A=1g, $1.10 **B**=3g, $2.50 **C**=12g, $6.00 **D**=60g, $22.00

5421SO Selma Suns Mix OG Trialer Dyrek rates these her favorite sunflowers for their fragrance, beautiful diversity and plethora of polyheading 6" blooms. Selma's heads have small dark centers, pointed petals, and display various hues and shades including yellows, golds, maroons and reds. Dyrek reports that Selma "flowers forever if the squirrels don't rip off the heads." 6–7' tall. OT, MOFGA-certified. ~55 seeds/g. ①
A=1g, $1.10 **B**=3g, $2.50 **C**=12g, $6.00 **D**=60g, $22.00

5426SY Soraya (80 days) The first sunflower ever to win an AAS (2000), Soraya impressed the judges with its luminescent deep orange petals, contrasting dark mahogany center disks, and sturdy branching habit. The latter accounts for its astonishing productivity, up to 25 4–6" blooms per plant, borne on stout 20" stems, perfect for cutting. Almost pollenless. 6' plant spreads 2–3'. ~60 seeds/g. ①
A=0.5g, $1.80 **B**=4g, $7.00 **C**=1oz, $30.00

5429SM Summer Sensation (65 days) Vibrant 8" flowers, yellow surrounding a dark disk, on 5' plants. Can be grown as a single stem or pinched to branch out. Has pollen. Seedhead can be crafted into those decorative natural birdfeeders—if you don't snack on the seeds first. ~10 seeds/g. ③
A=2g, $1.10 **B**=6g, $2.80 **C**=30g, $8.00 **D**=1lb, $90.00

5430SD Sungold Dwarf (60 days) Danish variety much nicer than the original Teddy Bear or any of its imitators. Polyheaded blooms growing on very short stems—the main stalk is only 2'—are fully double giving the fuzzy effect. Habit almost like a well-behaved dahlia. Drew much attention and many comments at our sunflower display at Common Ground Fair. Blooms hold well compared to other dwarf types. Has pollen. ~50 seeds/g. ③
A=1g, $1.00 **B**=3g, $2.50 **C**=12g, $5.50 **D**=60g, $20.00

5433TO Tiger's Eye OG (85-100 days) If you look straight into the center of the seedhead, you will be looking into the eye of the tiger. This mix, originally developed by Seeds of Change a decade ago, includes some fascinating combinations. Most flowers have double-petaled fluffy centers with single outer rays in sunset shades of gold to bronze to copper and maroon, but a few are single-petaled gloriosa types. The 6–8' plant can be grown as a single stalk for a large terminal flower or pinched back to encourage up to 30 branches with 4–8" pollen-bearing flowers. AGRIOR-certified. ~20 seeds/g. ③
A=1g, $1.10 **B**=4g, $3.00 **C**=20g, $8.00 **D**=100g, $30.00

5436VI Vanilla Ice *H. debilis* The closest we have seen to a white-petaled sunflower. Though their true color is more cream or pale yellow, the petals make a great contrast to the rich dark disk in the center. Superior to the better-known Italian White in our trial. Wini Noyes advises to "start really, really early and don't transplant until they are very strong." Polyheaded with 5' stalks, 3–4" blossoms. ~225 seeds/g. ③
A=1g, $1.20 **B**=3g, $3.20
C=12g, $6.50 **D**=60g, $22.00

5439SS Sunflower Sampler For those who wish to get in on the sunflower craze without spending a pile of jing, we'll mix seed for a half dozen or so varieties into one package. Create a lovely display for a dollar ten. No dwarfs or mammoths. ③
A=1g, $1.10 **B**=3g, $2.80 **C**=9g, $6.00
D=90g, $30.00

SWEET PEA *Lathyrus odoratus*

Hazel Turrone of Jeffersonville relates, "My 8-year old son said he couldn't have a summer without sweet peas. How could I say 'no' to that?! Growing beautiful gardens and beautiful children in Vermont."

Native to Sicily, first domesticated around 1699 when amateur botanist and monk Father Francis Cupani shipped seed for the variety that bears his name to a hothouse grower in England. In the late 1800s extensive breeding work, especially by Henry Eckford, expanded the range of available colors. Around 1900 Silas Cole, gardener to Earl and Countess Spencer, found a sport with much larger ruffled flowers but less scent than Eckford's varieties. It created a sensation when it was exhibited in 1901. From this variation derive all modern strains including Spencer, Cuthbertson, Knee-High and Mammoth.

As interest in fragrance revived, Bodger Seeds Ltd. obtained as many of the pre-Spencer varieties as possible and created Old Spice Mix in the 1970s. With gardeners again demanding fragrance in individual colors, Bodger has begun to offer the old strains individually and we are continuing to try them.

Soak seeds for 12–24 hours prior to sowing. For earliest blooms, sow indoors 2 months before setting out, or sow direct in spring. Need darkness for germination which takes 10–21 days at 60˚. Old catalogs recommended sowing in a 4–5" trench and filling in as the peas grew. Likes full sun and moist rich soil, but many perform poorly in heat, so mulching is recommended. If you are growing for cuts, avoid windy locations, as exposure will make plants stockier and stems shorter. Requires support. We use #**9071** Trellis Plus. Harvest flowers frequently to keep blooms coming. Last only 3 days in the vase, but perfume the air incomparably. **~12 seeds/g.** Perennial sweet pea is #**6296**.

5440AM America An antique striated variety, arresting both to eyes and nostrils. Each blossom contains subtle variations of bright reds with creamy white streakings. Heavily perfumed. Looks lovely next to Cupani. First offered in 1896 by Morse-Vaughan. Vines grow to 3'. ③⑤

A=2g, $1.00 **B**=8g, $2.50
C=24g, $6.00 **D**=120g, $25.00

5441AO April in Paris OG At last, it's April in Paris! (Actually, it's October in Waterville, but I can dream, can't I?) We've waited so long to be able to offer this superb sweet pea that in Fedco circles the phrase 'April in Paris' has come to denote the intense yearning for any elusive cultivar or seemingly unattainable goal. April is worth yearning for. Also called High Scent, she may be the most hauntingly fragrant sweet pea ever created, her development representing the apotheosis of breeder Keith Hammett's work (see also #**5458**) to reintroduce the old-fashioned scent into the large blooms and ruffled form of the modern sweet pea. Soft primrose cream blossoms tinted at the edges with dark lilac bands that widen and deepen with age atop long stems perfect for cutting. 4–6' vines. Next year in Paris? OT-certified. **NEW!** ①

A=2g, $1.20 **B**=8g, $2.80

5442BK Black Knight One of 115 varieties Eckford exhibited at the Crystal Palace in 1900, bred in 1898. Highly scented deep maroon flowers tolerant of heat. 5–6'. ②

A=2g, $1.00 **B**=8g, $2.50 **C**=24g, $6.00 **D**=120g, $28.00

5443CU Cupani Oldest and among the most fragrant of all sweet peas. Celebrated its 300th birthday in 1998 amidst a surge of renewed interest. Named for the Sicilian monk who found these bicolors growing wild, Cupani combines deep maroon-purple upper petals with deep violet-blue lower petals. Grow Cupani for enticing intoxicating aroma. 5' vines. ②

A=2g, $1.10 **B**=8g, $2.80 **C**=24g, $6.50 **D**=120g, $30.00

5448KH Knee-High Mix Semi-dwarf 20" bush-type plants need no support, produce full-length stems. ③

A=7g, $1.10 **B**=28g, $4.00 **C**=84g, $9.00 **D**=1lb, $45.00

5454MM Mammoth Mix (75 days) 4–6' staking variety. The best tall mix in our many gorgeous trials. Though temporarily slowed by heat waves, revives during each cool spell and never stops blooming from July to September. Long stems make ideal cutflowers. Mixture of crimson, scarlet, white, lavender, deep rose, medium blue and pink. The purples and reds are the most fragrant. Year after year the least finicky and most dependable performers in heat. ②

A=7g, $1.20 **B**=21g, $3.20 **C**=63g, $7.00 **D**=1lb, $40.00

5455MC Mrs. Collier A white sweet pea with real fragrance! We thank Marilyn Barlow of Select Seeds in Union, CT, for bringing it to our attention. Even in the hot humid nights of August, 2010, the heavenly blooms lasted and exuded way more scent than the whites in the Mammoth mix. Introduced in 1907 by Dobbie & Company. 5–6'. ②

A=2g, $1.00 **B**=8g, $2.50 **C**=24g, $6.00 **D**=4oz, $15.00

5458MS Mixed Streamers (60 days) Relentless, our sweet pea trialer, is passionate about the genus: he grows them, he trials them, he breeds them. So, when a sweet pea stands out for him, it really stands out. At over 5' tall with abundant fragrance, these Streamers really rocked. Known in the trade as "flakes" for the boldly streaked white patterns rippling on a mix of colors—blue, lavender, pink, purple, chocolate, orange and scarlet—these flakes aren't the usual chip off the old rock. Along with its good stems, huge blossoms and excellent longevity as a cut flower, they make this 2002 introduction a real coup for pre-eminent New Zealand breeder Keith Hammett. ②

A=2g, $1.20 **B**=8g, $3.20 **C**=24g, $7.00 **D**=4oz, $26.00

TITHONIA *T. rotundifolia*

Also known as Mexican Sunflower. Attract butterflies with these tall floriferous beauties. The dressy blooms often exceed 4" across and continue over a long season. Heat-loving plant closely related to the zinnia. Sow outdoors after danger of frost in 70–85˚ soil, or start indoors 6 weeks before last frost date. Tithonia sulks in the cold so don't bring it out too soon. **~100 seeds/g.**

5459GF Goldfinger 4' tall with bright orange 3–4" blooms comparable to Torch's. Upright and uniform habit, but more dwarf than Torch, yet with nearly as much charm and greater versatility. ③

A=0.2g, $1.10 **B**=0.6g, $2.80 **C**=1.8g, $5.00

5460TH Torch (120 days) Stately 6' plants with velvety dark green leaves bear scarlet-orange 4–5" blooms that hummingbirds and monarch butterflies find extremely attractive. My fondness for this showy flower is shared by our customers. 1951 AAS. ②

A=0.2g, $1.10 **B**=0.6g, $2.50 **C**=7.2g, $5.00 **D**=28.8g, $10.00

5461ZP Zulu Prince Venidium *V. fastuosum* Also known as Namaqualand Daisy or Monarch of the Veldt. (Namaqualand is in southwest Africa.) Daisy-like flowers close up in dreary weather, but will open in ten minutes if cut and brought indoors. Christopher Lloyd says their large center disks "shine black like a healthy dog's nose." Glorious creamy-white 4" flowers have vivid black centers. With multibranching habit and deep-cut fuzzy leaves, Venidium sprawls 2 1/2' and needs a dry sunny location to remain upright. Intolerant of wet feet, keels over when saturated. Start indoors, transplant out after danger of frost. Keep deadheaded for long bloom production. Space at least 2' apart. *Unless sales pick up, this is the last year we will offer.* Maybe this tribute from Pat Spence of Fish Haven, ID, Zone 3-4, can help: "Zulu…was a very pleasant surprise, the best new flower of the season. It did very well in pots and baskets in the full sun. The flowers held well if cut in mature bud and looked nice in combination with other garden flowers. Bloomed till frost. If covered for the first early frost most plants can flower for another month." ~500 seeds/g. ②

A=0.2g, $1.20 **B**=0.6g, $3.00 **C**=2.4g, $6.00

5462MG Imagination Verbena *V.* x *hybrida* (also called *V. speciosa*) With its 20" spread, you won't need much Imagination to fill your hanging baskets. Delightfully intense blue-violet flowers create an increasing cascade of color. Also ideal for flower beds and a 12" tall ground cover for borders. Stems creep along the ground and root to bind the soil together. Soft fine-textured foliage. Likes full sun and tolerates drought. ~900s/g. ②

A=0.1g, $1.70 **B**=0.3g, $4.50 **C**=1.5g, $15.00

5463PV Purple Top Verbena *V. bonariensis* (90 days) I fell in love with this free-flowering verbena at first glance. Don't confuse it with the hybrid dwarf bedding plant. Proud strong 3–4' stems almost without leaves topped with vibrant purple flowers that thrive in heat and bloom from July to October. Makes an ideal cutflower and mingles beautifully with other tall border plants. Hillary Nelson suggests combining with cosmos, lavender, purple zinnias and lemon mint. Attracts butterflies. Extremely drought-resistant. Erratic germination may be helped by 3–5 weeks' stratification prior to sowing. Start at temperatures of 70–75°, grow on at 55–62°. Keep growing medium fairly dry. Cutflower customers love it, but its tendency to shatter annoys some growers. ~4,000 seeds/g. ②

A=0.1g, $1.20
B=0.4g, $3.00
C=2g, $5.50

"You folks are wonderful. We're getting married this summer and growing a bunch of our bouquets using Fedco Seeds!"
—Jeff Klein, Roxbury, MA

ZINNIA *Z. elegans*

Known as Youth and Old Age in the 1800s, these showy annuals were named for German botany professor Johann Gottfried Zinn (1727-1759). One of the easiest to grow from seed, and a favorite for bright color in Maine summers. Zinnia flower essence is used to bring out playfulness and lightheartedness. Cut when flowers are almost fully mature, just before pollen starts to form. Deadhead to continue production. Sow in a sunny spot after last frost, or start indoors for earlier blooms. Jason Kafka says zinnias perform better in tunnels than in the field.

Germinates 3–5 days at 80–85˚, more slowly at cooler temperatures. Grow on at 70˚ days, 60–65˚ at night. Temperatures below 60 delay flowering and may induce chlorosis. Space at 9–12". **~110 seeds/g except where noted.**

Benary's Giants (85 days) A most elegant giant dahlia-flowered zinnia. The densely petaled double flowers regularly exceed 4" across, showy yet extremely refined, borne on long stems perfect for cutting. Highlighted by the uniform petal patterns, colors are particularly bright from yellow, orange and white to scarlet, rose-pink and magenta. Holds better than most even under the stress of high heat and rainfall. Absolutely breathtaking in ideal conditions. 3–3 1/2' plants. The zinnia of choice for market growers; on a par with State Fair Mix for home gardeners. Only film-coated polished seed is available. ~120 seeds per gram.

5467SP Benary's Giants Scarlet Coated. ②
A=0.2g, $1.80 **B**=1g, $4.50 **C**=4g, $16.00

5468BW Benary's Giants Wine Coated. A very hot fuchsia. ②
A=0.2g, $1.80 **B**=1g, $4.50 **C**=4g, $16.00

5469MP Benary's Giants Mix Coated. ②
A=0.2g, $1.80 **B**=1g, $4.50 **C**=4g, $16.00

5470CJ Cactus Bright Jewel Mix (75 days) Large ruffled blossoms resemble chrysanthemums. Profuse immense blooms in scarlet, orange, pink, yellow. 3'. ②
A=1g, $1.00 **B**=7g, $2.50 **C**=28g, $6.00 **D**=4oz, $15.00

5474GM Gold Medal Mix A formula blend of cherry, orange, pink, purple, scarlet, white and yellow dahlia-flowered blossoms 4–5" across excellent for cutting. Flowers are flat-petaled, semi-double on 3 1/2' plants. Bred by Bodger. ②
A=1g, $1.00 **B**=7g, $2.50 **C**=28g, $6.00 **D**=4oz, $15.00

5476NC Inca A shade of hunter orange that would warm Sarah Palin's heart. Waist-high stems bear blazing 3–4" single orange blooms with showy little yellow doodads (disk florets) in the center. Long stems for cutting. Flowered fluorescently from July to October at Donna Dyrek's 2008 trial. Spectacular! ~120s/g. ③
A=0.5g, $1.20 **B**=1.5g, $2.50 **C**=9g, $7.50
D=45g, $32.00

5477KY Oklahoma Golden Yellow Bred specifically for the cutflower grower, the Oklahoma series offers a less expensive alternative to Benary's Giants. The Oklahomas are as floriferous as Benary's with smaller 2" blossoms and comparable stem length. They bloomed for Donna Dyrek on July 2, four days before the Benary's. The 30–40" plants are taller and slightly more frost hardy. The elegant pompon blooms are slow to show cold stress or go single. If this color catches on we will offer more Oklahoma choices next year. 160 seeds/g. **NEW!** ②
A=0.5g, $1.20 **B**=2g, $4.00 **C**=8g, $12.00
D=32g, $32.00

5478PC Persian Carpet *Z. haageana* (80 days) These variegated fully double and semi-double 2" flowers borne on 1' stalks hold a long time. They have maroon centers, with white, yellow or gold on the outside. This Mexican Zinnia is smaller and less gaudy than our other zinnias and very pleasing in bouquets. 1952 AAS. Resists powdery mildew, allowing clean cutflowers through October even in the Pacific Northwest. ~770 seeds/g. ②
A=0.5g, $1.00 **B**=5g, $2.50 **C**=20g, $5.50
D=80g, $16.00

5482PM Pumila Mix (Cut & Come Again) Small 2' plants with flowers 2 1/2–3" across. Wide range of colors includes orange, yellow, white, pink, lavender and scarlet. ~175 seeds/g. ②
A=1g, $1.00 **B**=7g, $2.50
C=28g, $6.00 **D**=4oz, $12.00

5487FL Scarlet Flame Even Gene, who doesn't like gaudy zinnias, was attracted to Scarlet Flame's elegant bright scarlet blooms. 3' stems. Predates 1934. ②
A=1g, $1.10 **B**=7g, $2.80 **C**=28g, $9.00
D=4oz, $25.00

5491SF State Fair Mix (90 days) Old-fashioned variety bears a rich array of huge single and double blooms on 30" plants. The blooms are much showier than those in the Gold Medal Mix with fully saturated colors that include red, magenta, purple, orange, lavender and pink. Our best-selling zinnia ranks fourth among all flowers. ~80 seeds/g. ②
A=0.5g, $1.00 **B**=2g, $2.50 **C**=12g, $6.00
D=4oz, $18.00

5493SW Swirls (85 days) These zinnias wowed everyone who saw them in our trials with their slightly fluorescent bicolor blooms of rose and white or red and yellow. The 4" flowers are fully double to semi-double with slightly ruffled flat petals borne on 2' stems. ~190 seeds/g. ②
A=1g, $1.00 **B**=7g, $2.50 **C**=28g, $6.50 **D**=4oz, $15.00

5495ZF Zowie!™ Yellow Flame (85 days) My favorite flower variety in 2010, nothing is staid about this 2006 AAS winner. Color pops right out of 3–4" semi-double blooms with glowing magenta centers and rose petals dipped in yellow at the tips. At 2–3' the well-branched plants are loaded with flowers of remarkable staying power. Whatever our tough climate dishes out, whether cold rain or steamy heat, the blooms stay clean and seem to last forever. Superb for bouquets too, with a vase life of up to 2 weeks. ~125 seeds/g. ⑤
A=0.1g, $2.60 **B**=0.4g, $8.50 **C**=2g, $32.00

5497CT Cutflower Mix A mixture of annual flowers that can be used for cutting. Includes popular types such as aster, bachelor's button, calendula; also some lesser-known kinds.
A=1g, $1.10 **B**=14g, $3.20 **C**=56g, $10.00 **D**=224g, $32.00

LIVE FREE OR DYE!

Susanne Grosjean, of the Wednesday Spinners group in Downeast Maine, says "You need only three dye plants: indigo for blue, madder for red and weld for yellow. Three primary colors, all excellent fast dye plants."

5502DB Dyer's Broom *Genista tinctoria* A tough naturalized perennial originally used to make brooms but mostly valued for its profuse golden-yellow flowering tops that yield a clear colorfast yellow dye. Branching near the ground, its erect 3' stems may be harvested throughout its flowering period from midsummer to fall and dried for later use. It also has medicinal uses. Plant in full sun where it will not need to be moved as it does not transplant well. Scarify and soak the seeds to cut germination time to 2–3 weeks. Grows slowly the first year and flowers in year two. Zones 2-8. ~320 seeds/g. ②
A=0.2g, $1.50 **B**=0.6g, $3.00 **C**=3g, $8.00

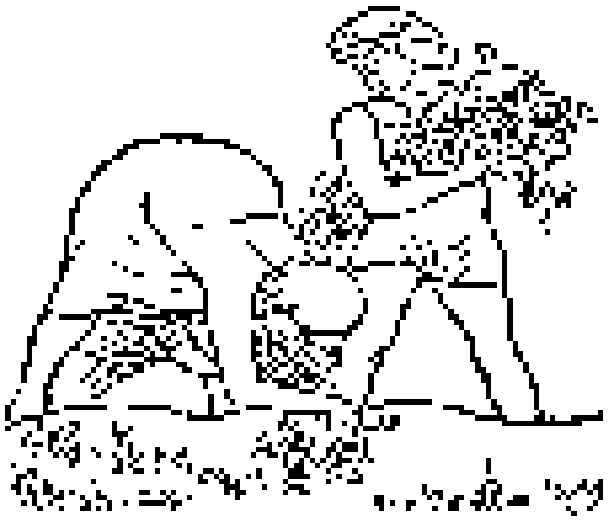
5504CS Dyer's Coreopsis Mix *Coreopsis tinctoria* Formerly listed as Calliopsis. A beautiful native ornamental that provides a full palette of color from yellows and greens to rusts and browns—and even black, depending on the combination of plant parts and mordants. Large cosmos-like flowers in combinations of yellow, mahogany and red atop 2 1/2' erect stems flourish in full sun and make excellent cuts. Low-maintenance and rugged annual. Good for less cultivated areas such as open spaces, roadsides and borders, competes well with grasses and reseeds easily. Tolerates drought. ~2,200 seeds/g. ②
A=0.3g, $1.00 **B**=0.9g, $2.50 **C**=4.5g, $5.00

5506HO Hopi Dye Sunflower OG (90-100 days) *Helianthus annuus* A rare indigenous heirloom that the Hopis used as a natural dye source for coloring baskets purplish charcoal. "Blackest little seeds I've ever seen," says trialer Donna Dyrek. They will stain your hands purple when you collect them. Also edible and extremely easy to hull. 8' stalks with massive 12–18" main heads feature golden-yellow single petals around a dark purple-green center. Numerous side branches set all the way to the ground with smaller blossoms that make great cuts. Began blossoming in Central Maine Sept. 1 and lasted till early October. Adapted to high desert areas with cool nights, but will thrive most anywhere. Mound the soil around the base of the plants to prevent lodging. OT-certified. ②
A=1g, $1.10 **B**=4g, $3.20 **C**=20g, $12.00 **D**=100g, $40.00

5511ND Indigo *Polygonum tinctorium* Japanese indigo preferred by dyers in Maine. A tender annual, indigo thrives in fertile soil and likes heat and humidity. Best started indoors 6–8 weeks before the last frost, transplanted out on 1' centers and kept moist. When the plants have grown 1–2' tall and bruised leaves turn navy blue, they are ready for a first harvest. If you cut the stems several nodes up from the ground, they will re-sprout and you can harvest the re-growth, perhaps several times more. Plan ahead and prepare the dye bath the same day as the harvest. ~250 seeds/g. ②
A=0.1g, $2.20 **B**=0.3g, $6.50 **C**=1.2g, $20.00 **D**=4.8g, $70.00

5513MD Madder *Rubia tinctorum* Known as Common Dyer's Madder. An ancient and excellent source of red dye, native to southern Europe and Asia, the 4' plants have square stems, whorled leaves and pencil-slender roots. Roots go down 2'. Do not harvest them the first three years. Then dig deep to get the tap roots, not the runner roots, and grind them to yield a wash- and light-fast red dye *par excellence*. Seed can take two weeks to germinate. Start inside in April in 70+ ° temperatures and transplant 12–18" apart in loose soil after danger of frost. Mulch heavily and keep beds well weeded. Plants send out runners that could become invasive so keep the area around the beds mowed. Perennial to Zone 5 if mulched heavily. ~45s/g. **BACK!** ②
A=0.25g, $2.00 **B**=1g, $6.50
C=4g, $22.00

5528WD Weld *Reseda luteola* Known as Dyer's Rocket. Used since antiquity, weld is said to be the best natural source of deep yellow dye, both wash fast and light fast. Leaves, flowers and seed capsules have the most color. When overdyed with woad, weld makes Lincoln Green, said to be the method Robin Hood and his band used for their characteristic gang color. A 4–5' biennial member of mignonette's genus, it thrives in well-drained moderately fertile preferably alkaline soil. Attractive to bees. ~4,760/g. ①
A=0.2g, $1.20 **B**=1g, $3.00 **C**=4g, $7.50



EVERLASTINGS

Flowers are arranged here by common name except where the botanical name is more familiar. **A botanical index appears on p. 103. See chart on pp. 76-77 for uses and cultural information.** Annuals except where noted.

5705PL The Pearl Achillea *A. ptarmica* Hardy perennial bears clusters of fully double small white pompon blooms with tiny yellow centers, almost like a large double Baby's Breath. Its common name Sneezewort would lead one to believe that the flowers induce excessive sneezing. Actually it is less allergenic than yarrow. Easily cultivated, spreads readily and makes an effective "wild" border, 2–3' tall. Supplies copious cutflowers from spring until frost, enjoyable either fresh or dried. Dry slowly before the oldest blooms start to brown. Zones 3-10. ~3500 seeds/g. ③

A=0.05g, $1.20 **B**=0.15g, $2.80 **C**=0.6g, $5.00

5710AC Acroclinium *Helipterum roseum* Also known as Sunrays. Daisy-like flower which may be used fresh as cutflower. Pick in bud stage; will open as it dries. White, rose and pink shades. Start in cool place 2 months prior to setting outdoors, or direct sow outdoors after frost. 2'. ~400 seeds/g. ②

A=0.2g, $1.00 **B**=0.6g, $2.50 **C**=2.4g, $5.00

5714BI Bells of Ireland *Moluccella laevis* (110 days) Spikes of bright green bell-shaped "flowers" atop 2½' branching stems. Each green bell is really a showy inflated calyx with a tiny pinkish flower inside. When dried, bells turn creamy white. Needs light to germinate. Likes partial shade; thrives in cool climates. Will self sow. ~140 seeds/g. ②

A=1g, $1.00 **B**=3g, $2.50 **C**=15g, $5.00

5716BS Blazing Stars *Liatris spicata* Perennial also known as Gayfeather. 18" spikes of rosy purple flowers for cutflowers or drying. Start indoors in late winter in cool place and set out in spring in 6–8 weeks or direct seed in spring. Takes 3–4 weeks to germinate. Harvest the stems in the morning when at least half the flowers are open. Zones 3-9. ~330 seeds/g. ③

A=2g, $1.00 **B**=6g, $2.50 **C**=18g, $7.00

5720BU Green Gold Bupleurum *B. griffithii* (90 days) Although not well known outside of Dutch flower auctions where it commands a price similar to roses, this unique plant with yellowish flowers and round leaves gets attention from dried flower growers. Its well-branched 2' stems air-dry perfectly, retaining their green color and looking like they had been dried in glycerine. Moreover, because each stem fans out, an individual stem provides backdrop for an entire arrangement, either fresh or dried. Start indoors early to reach full growth potential. Will self sow in warmer areas. ~320 seeds/g. ③

A=0.2g, $1.20 **B**=0.6g, $2.80 **C**=6g, $5.50 **D**=30g, $18.00

CELOSIA *C. argentea*

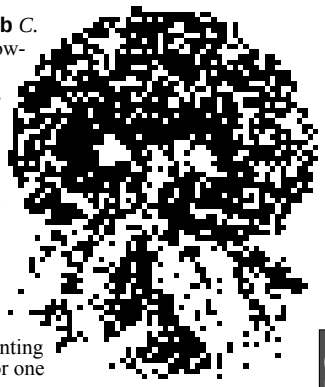
From the Greek *keleos*, 'blazing,' a reference to their brilliance. Commonly appear in three groups, *spicata* (with spikes or pointed), *cristata* (crested, fancifully known as brains), and *plumosa* (plumed). All share blazing colors, furry textures and unusual shapes. From the Southern Hemisphere, at their best in hot dry weather. Known as *ji quan ha* in China where both seeds and flowers are used for blood diseases, bleeding and urinary tract infections. Should germinate within 10 days at 72–80˚.

5725CR Cramer's Amazon *C. a. spicata* (120 days) A truly wild thing from the Peruvian Amazon. Makes a great landscape plant, shooting a 3–6' spire punctuated by 2–3" reddish-purple spikes. Its coleus-colored leaves, green splashed with purple, heighten its dramatic effect. Blooms hold up better than other spicatas as a dried flower if cut while the spikes are still short. As the blossoms age they turn white on the bottom. Amazing long red stems and spectacular spikes make this a perfect cutflower. Requires a long season. Start inside 8 weeks before frost and transplant into warm ground. Pinch at 12" to encourage branching. ~250 seeds/g. ②

A=0.2g, $2.00 **B**=1g, $6.00 **C**=4g, $15.00

Pink Candle Wheat Celosia *C. a. spicata* (80 days) Discontinued by the trade; *no longer available.*

5730CG Coral Gardens Cockscomb *C. a. cristata* An extra-dwarf brain-type growing fairly large flowers on compact 10" plants. Blooms display a rich mix of red, crimson, rose, orange and gold with an almost neon glow. *Includes some spectacular giant brain off-types of all colors.* Be prepared when people approach your annuals and ask, "Do you have any brains?" Sow indoors in peat pots 4 weeks before last frost. Too-early seeding and cold temperatures can cause premature flowering. Seedlings sensitive to both drying out and damping off; apply moisture evenly. Pinch off heads two weeks after transplanting to induce branching or leave one stalk for one larger bloom. ~1,200 seeds/g. ②



A=0.5g, $1.10 **B**=3g, $2.80 **C**=15g, $7.00

5731MD Madras Scarlet Cockscomb *C. a. cristata* Brains on fire! Stands 18" setting huge beautiful amazingly bright red cockscombs that last forever and dry nicely. The first blooms were really early, in mid July. "Then they just got bigger and more beautiful until they were almost iridescent," reported Donna Dyrek. "Cool for a cockscomb," she concludes. ~2,000 seeds/g. ③

A=0.01g, $2.60 **B**=0.03g, $7.50 **C**=0.15g, $32.00

5732FF Forest Fire Cockscomb *C. a. plumosa* Plume-type celosia also known as Feather Amaranth shows bright scarlet flowers, with strikingly beautiful bronze-red foliage. 30–36". ~1,500 seeds/g. ②

A=0.2g, $1.10 **B**=3g, $2.80 **C**=12g, $5.50

5734SL Smart Look Red Cockscomb *C. a. plumosa* Here is one place where having a glossy color catalog would help. Despite their diminutive 12" stature, these little beauties really stand out: their deep coppery-purple foliage contrasts charmingly with their neon-red plumes. So just this once chuck your catalog, google this cockscomb, and take a good Smart Look! ~1200s/g. ③

A=0.05g, $1.40 **B**=0.2g, $4.20 **C**=1g, $15.00

5736CL Chinese Lantern *Physalis alkekengi* Perennial grown for its deep orange "lanterns," the calyxes that surround the red fruits. *Physalis* is Greek for bladder, referring to these husks. May be sown indoors in warm place. Likes full sun. Dig out every three years to prevent invasion. Zones 3-10. ~600 seeds/g. ③

A=1g, $1.20 **B**=3g, $3.00 **C**=9g, $8.00

GLOBE AMARANTH *Gomphrena globosa*

We've switched all but one color to the Las Vegas series (more compact plants with the same stem length) which was 15 days earlier and much more floriferous in our trials. Bloomed for Donna Dyrek on July 15. No gamble here, these are sure to sizzle!

Beautiful round clover-like 1" flowers on 2' stems perfect for drying. Also enjoyable as bedding plant. Easily grown in any soil, likes hot sun, blooms prolifically. Tolerates dry weather and some frost. Chill seed 4–6 weeks at 40˚, then start indoors at 60–70˚ for best germination. Germination is erratic; can take from 7–30 days. Grow on at 55–60˚. Do not overwater. Transplant in 8–12 weeks, spacing at 12–18". **~200 seeds/g.**

Orange We have dropped this color; *no longer available from us.*

5745PG Las Vegas Purple ② **NEW!**

A=0.1g, $1.50 **B**=0.4g, $5.00 **C**=1.2g, $12.00

5750QG QIS Red Vibrant strawberry-red profuse blooms. QIS stands for Quality In Seed. Enormously popular with commercial growers. ③

A=0.1g, $1.20 **B**=0.4g, $2.50 **C**=1.2g, $7.00

5753WG Las Vegas White ② **NEW!**

A=0.1g, $1.50 **B**=0.4g, $5.00 **C**=1.2g, $12.00

5755MG Las Vegas Mix Three vibrant colors: pink, purple and white. **NEW!** ②

A=0.1g, $1.50 **B**=0.4g, $5.00 **C**=1.2g, $12.00

5762HY Honesty *Lunaria annua* Also known as Silver Dollar, Money-plant, and Moonwort. Honesty is hard to find among our public figures; it is easy to find in our catalog. This Honesty is a winter-hardy biennial with fragrant lavender flowers usually grown for its large coin-shaped silver seed pods that shimmer in winter bouquets. Sow indoors in a 65–70 ° spot, grow on at 60° at night before setting out to a sunny location, or direct sow spring or fall. Depending on conditions, may not flower until second year. 3'. ~50 seeds/g. ②

A=1g, 90¢ **B**=14g, $2.50 **C**=42g, $5.00

5770MM Immortelle Mix *Xeranthemum annuum* Papery daisy-like flowers 1½" across in a wide range of colors; also a nice cutflower, grows to 3'. Grown easily from seed, or can be started early indoors. The genus is native to the Mediterranean region and prefers dry conditions.~760 seeds/g. ②

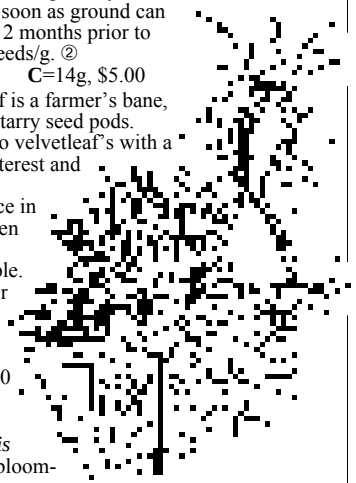
A=0.25g, $1.00 **B**=1.5g, $2.50 **C**=6g, $5.00

5774JO Job's Tears OG *Coix lacryma-jobi* (100 days) Named for the Greek *coix* which means palm, this ornamental grass more closely resembles corn with blades as much as 1½" wide. Spiky 2–3' stalks good for planters or as filler in dried fall arrangements. Sets pendulous sprays of globular pearly purple-grey seeds, the tears, which may be strung as beads for necklaces. A great favorite of kids who love to harvest the seeds. Start indoors in late March or early April. Forgiving and easy to grow. Believed to be one of the oldest grasses in cultivation, featured in seed catalogs for almost two centuries. Our thanks to Alicia McDonald of Whately, MA, who sent us seed. MOFGA-certified. ~5 seeds/g. ①
A=2g, $1.10 **B**=6g, $2.80 **C**=24g, $9.00

LOVE-IN-A-MIST *Nigella* spp.

Germinates 10–14 days at 60˚. Grow on at 60–65˚. Set transplants 6-9" apart.

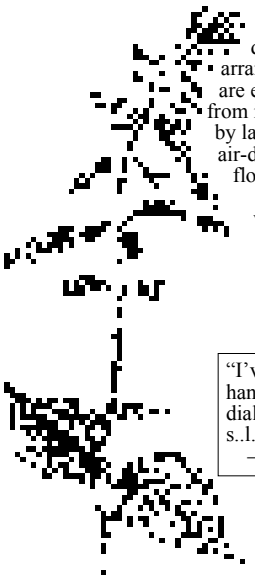
5782PJ Persian Jewels Mix *N. damascena* (70 days) Profuse blooms in pink, blue and white shades surrounded by a cloud of greenery make lovely bouquets. Seed heads are used dried and are especially nice with a little bit of the flower attached. Direct seed as soon as ground can be worked, or sow indoors in a cool spot 2 months prior to setting out. Plant in full sun. 18". ~760 seeds/g. ②
A=0.4g, 90¢ **B**=2g, $2.50 **C**=14g, $5.00



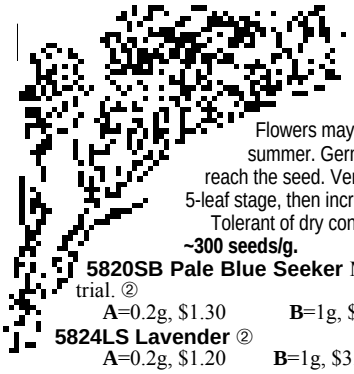
5790EX Exotic *N. hispanica* Velvetleaf is a farmer's bane, a pernicious weed, but bears wonderful starry seed pods. Exotic's golden brown pods are similar to velvetleaf's with a more spidery appearance that will add interest and volume to any dried arrangment. Unlike velvetleaf, this annual won't be a nuisance in the field. Doubles as a cutflower with open form, striking maroon stamens and an arresting shade of deep blue, almost purple. Atop 16" stems, the blossoms hold longer in a bouquet than other kinds of Love-in-a-Mist. Likes full sun or light shade. ~900 seeds/g. ②
A=0.1g, $1.40 **B**=0.4g, $4.00 **C**=2g, $12.00

5799PE Pearly Everlasting *Anaphalis margaritacea* You may have seen these blooming from midsummer to fall in the full sun or partial shade along the edge of a field. Big clusters of ½" white papery flowers on 18–24" perennial plants live up to their name and hold their pure white color without turning brown when dried. Best picked for drying before the yellow centers are visible in order to prevent an unattractive exploded look. Also use fresh in bouquets or leave outdoors to attract pollinators. Good for naturalizing in evenly moist soil but will tolerate drought. Known by the Passamaquoddy as "women's tobacco" because it is milder than Red Willow, and used for calming the mind, for headache and insomnia, and as a smudge or offering. Direct sow after last frost so that plants are 18–24" apart. Zones 3-8. ~8,000 seeds/g. ②
A=0.1g, $1.50 **B**=0.3g, $3.40 **C**=1.2g, $12.00

5804TS Tricolor Salvia *S. viridis* Also known as painted sage. This prolific little beauty is splendid as a dried flower or a filler in fresh arrangements. Although its leaves are entirely green, its name comes from its white and blue flowers set off by large pink-to-purple bracts. Easily air-dried, it will remain very colorful, flowering until frost if old blooms are removed. 18" stalks. Needs well-drained soil. ~350 seeds/g. ②
A=1g, $1.10 **B**=4g, $3.00 **C**=12g, $6.00



"I've never ordered online before—I'm a lover of handwriting everything—plus we only have dial-up and I assumed it would be dreadfully s..l..o..w but it was a speedy breeze!"
—Erin McKelvy, Undergrowth Farm, Gill, MA



STATICE *Limonium sinuatum*

Faithful standby in everlasting bouquets; also good in fresh arrangements. Annual reaches 2–2½' on stiff winged bright green stems. Flowers may be gathered for drying many times throughout summer. Germinates in 5–14 days at 70˚. Some light should reach the seed. Vernalize seedlings at 50–55˚ until they reach the 5-leaf stage, then increase temperatures to 60–70˚. Grow in full sun. Tolerant of dry conditions. Seed is rubbed for easier germination. **~300 seeds/g.**

5820SB Pale Blue Seeker Medium-blue flowers, the best blue in our trial. ②
A=0.2g, $1.30 **B**=1g, $3.40 **C**=4g, $9.00

5824LS Lavender ②
A=0.2g, $1.20 **B**=1g, $3.00 **C**=4g, $6.00

5827FP Fortress Purple Donna's choice among 23 varieties of statice in her 2009 trial plot. ⑤
A=0.2g, $1.30 **B**=1g, $4.00 **C**=4g, $8.00

5828RC Compindi Rose Rich carmine. The best rose-colored variety, from Benary in Germany. ②
A=0.2g, $1.50 **B**=1g, $5.00 **C**=4g, $12.00

5836QW QIS White Swan Like frilly tutus in the ballet, this double white dances circles around all the others—and we've looked at a lot of the others. 2½' stems bear clean white full flowers with no yellowing or browning. A classic. ③
A=0.2g, $1.30 **B**=1g, $4.00 **C**=4g, $10.00

5839QY QIS Yellow A new color of this excellent series designed for market growers. Clear yellow prominent flowers on 2 ½' stems. Bright and beautiful. ③
A=0.2g, $1.30 **B**=1g, $4.00 **C**=4g, $10.00

5842MS Mixed Colors (115 days) Includes lavender, rose, purple, white. ②
A=0.4g, $1.10 **B**=2g, $2.80 **C**=6g, $6.00 **D**=30g, $18.00

5844SM Sunset Mix (~115 days) Warm shades of apricot, peach, rosy red, yellow and white; guaranteed to mix and match in arrangements, as filler, or in the garden. The different colors mature at slightly different times. 26" tall. ⑤
A=0.4g, $1.50 **B**=2g, $6.00 **C**=6g, $14.00 **D**=30g, $58.00

5848GS German Statice *Goniolimon tataricum* Large silvery-white flower heads for drying. Germinates in 12–21 days at 70–72 °, then grow on 4 to 6 weeks at 55–60 °. Set out in early spring using 1–2' spacing, or direct seed early spring or late fall. Likes heat and good drainage. Perennial, Zones 4-10, 20". Clean seed. ~1,000 seeds/g. ②
A=0.05g, $1.20 **B**=0.2g, $3.00 **C**=1g, $5.50

STRAWFLOWER *Helichrysum bracteatum*

The freeblooming strawflower is good for border color as well as for drying. Monstrosum varieties grow 30–40" tall, have 2–2½" fully double flowers. Grow in full sun. Gather blossoms before fully opened. Likes warm weather but will bloom into fall. Germinate at 70–75˚, grow on at 65–70˚ days and 60˚ nights. Do not overwater. Transplant in 6 weeks at 12" spacing. **~1,300 seeds/g**.

5864FB Monstrosum Fire Ball Bright red. "Love Fire Ball strawflower. Stunning. Now that we have seen it we can't live without it." ③
A=0.2g, $1.10 **B**=1g, $2.80 **C**=5g, $5.00

5872MX Monstrosum Mix Hot pink, light pink, white, gold and deep rose. ②
A=0.33g, $1.00 **B**=7g, $2.50 **C**=28g, $5.50

5876BK Bikini Mix (84 days) These bikinis bear bright pink, red, white, yellow and gold double flowers on dwarf 14–18" plants in just 12 weeks. Several commercial arrangers we know prefer them to the taller strawflowers. ②
A=0.1g, $1.60 **B**=0.8g, $5.20 **C**=3.2g, $18.00

5884AO Sweet Annie OG *Artemisia annua* (120 days) Also known as Sweet Wormwood. The scent of Common Ground Fair. We associate its pungent fragrance with the Fair where so many vendors offer it and where we sell more seed than for any other item. John Pino brings it to the Fair Farmers' Market by the trailerload. Annie grows up to 5', with light green leaves valued for everlasting wreaths which emit their distinctive redolence all winter. Used in China, where it's known as *qing hao*, as an antimalarial and antimicrobial. Reseeds itself vigorously. Seed must be frozen for 2 days, then germinated in light. WA-certified. ~250 seeds/g. ①
A=0.2g, $1.20 **B**=0.6g, $3.00 **C**=4.8g, $7.00 **D**=24g, $30.00

Grandiflora White Winged Everlasting *Ammobium alatum* Dropped for slow sales; *no longer available.*

GRAINS & GRASSES

Choose these decorative annuals for their differing forms as well as for their colors. The intricate designs of their seed heads make great accents. A few are edible as well.

Burbank Hulless Barley OG *Hordeum vulgare* We are cleaning up the stock seed. *Not available this year.*

5930BR Red Broom Corn *Sorghum vulgare* (105 days) Not a true corn, but a sorghum, broom corn looks and grows like corn but develops no ears, instead producing a tall spray of seed heads at the top of the plant in lieu of a tassel. These 2–3' sprays are laden with shiny red 1/8" seeds that birds love. Incorporate seeds into edible bird-feeder wreaths or leave sprays intact to add variety to traditional fall decorations. To make natural straw brooms, comb seeds out of the dry stalks and tie the seedless heads together. Stalks, generally 7–9', will grow up to 10' in an optimal season. ~48 seeds/g①
A=4g, $1.10 **B**=12g, $2.80 **C**=36g, $5.00 **D**=180g, $15.00

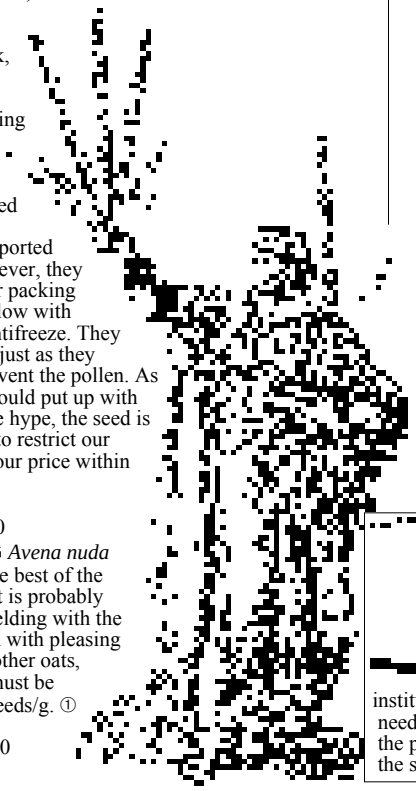
5940CP Calico Popcorn *Zea mays* (105 days) An heirloom dual-purpose corn with 5–8" ears that look like smaller versions of Indian corn. The shiny bright ears come in an array of colors, with red, yellow and mottled rosy-brown most common, but brown, purple, blue, white and other combinations possible. Kernels are smaller than those of most Indian corns, but larger than conventional popcorns. Calico is both decorative and edible so you can hang it on your door in fall and pop the very same batch on Thanksgiving. Seed grown by the Biseks in Minnesota. ~7 seeds/g. ①
A=28g, $1.80 **B**=84g, $5.00

5950HT Hare's Tail *Lagurus ovatus* Soft fuzzy grey-green to white dense conical heads feel as soft as rabbit's fur and are accentuated by very fine long purple hairs (plumose awn points) that protrude decoratively from the fur. Easy to air-dry; make a great addition to everlasting arrangements. 1' stems. ~2,000 seeds/g. ②
A=0.1g, $1.10 **B**=0.5g, $2.80 **C**=2g, $5.00

5954RS Ruby Silk Love Grass *Eragrostis tef* As one Fedco staffer put it upon seeing a cutting on Nikos' desk, "If someone gave me a bouquet of that, I'd fall in love with them." The romance is in the gracefully curving lines of this feathery grass with 18" stems bejeweled with sprays of iridescent burgundy seed heads. Nikos was entranced by their shimmering red display in the field. Early and persistent, blooms began on July 10 from an April 11 start and continued into October. Although their luster fades a bit in dried arrangements, the burgundy color endures. If your love life has been a little lacking of late, maybe Ruby Silk is just the charm it needs to be everlasting. ~3,750 seeds/g. ②
A=0.1g, $1.20 **B**=0.5g, $3.00 **C**=2g, $8.00

5958FX Foxtail Millet *Setaria macrocheata* Its graceful 3–6" golden seed heads bobbing on an August breeze attract attention even before harvest. After harvest, Foxtail Millet makes a striking counterpoint in floral displays. Customers ask for this specific strain because its heads, covered with golden-russet hairs, are softer and look less seedy than other types. Plant in June, harvest mid to late August. ~450 seeds/g. ②
A=1g, $1.00 **B**=4g, $2.50 **C**=28g, $6.00

5960PM Purple Majesty Millet *Pennisetum glaucum* (120 days) Bursting onto the scene with a 2003 AAS award, this millet accelerated the ornamental-grasses trend. A distinguished 3–5' tall background plant with deep-purple, almost black, corn-like foliage and purple seed spikes nearly a foot tall and an inch around. The immature plumes, looking like purple cattails, can be used in arrangements or left on the plant to attract birds. Tolerates hot dry weather, likes sun and can be cultured like sunflowers. Pamela and Frank Arnosky, in *Growing for Market,* reported that it was a sensational seller. However, they cautioned that some cuts left in their packing shed for a few days turned solid yellow with pollen that had an odor like burnt antifreeze. They advise cutting the spikes immature, just as they emerge from the last leaf, to circumvent the pollen. As for the smell, they concluded they could put up with it. "Smells like money." With all the hype, the seed is exorbitantly expensive. We've had to restrict our packets to about five seeds to keep our price within reason. ~116 seeds/g. ⑤
A=0.05g, $2.30 **B**=0.2g, $7.00
C=0.6g, $18.00 **D**=1.8g, $52.00



5962TO Terra Hulless Oats OG *Avena nuda* (100 days) Will Bonsall calls this the best of the naked oats, the one to grow to eat. It is probably the earliest as well as the highest yielding with the largest seed. This high-protein grain with pleasing flavor is easier to thresh than most other oats, though it still has a small hull that must be removed. ICS/FVO-certified. ~35 seeds/g. ①
A=7g, $1.20 **B**=28g, $4.00
C=112g, $12.00 **D**=448g, $30.00

5963SO Northern Sea Oats OG *Chasmanthium latifolium* We admire its 2' strong arching stems dancing with airy green flattened seedheads. Lovely in arrangements from June to September, after which its bamboo-like foliage changes from green to a rich brown, providing winter contrast. The dried seedheads make interesting accents in handmade paper. Self-sows freely if not deadheaded. Likes moist conditions and is lighter green when grown in full sun. Zones 5-11. AGRIOR-certified. ~260s/g. ③
A=0.2g, $1.20 **B**=1g, $4.00 **C**=4g, $14.00

5964QG Quaking Grass *Briza maxima* Also known as Totter Grass. An old favorite for floral designers. The large 2 1/2" rattle-like seed heads hang from strong 14–16" stems. ~170 seeds/g. ②
A=1g, $1.10 **B**=5g, $2.80 **C**=15g, $5.50

5970RO Duborskian Rice *Oryza sativa* (115 days from transplant) Grow rice in Maine! Roberta Bailey acquired this short-grain hardy Russian variety from Seed Savers Exchange member Anpetu Oihankesni of Colorado. Well adapted to dry-land production (no flooding necessary), sturdy plants resist lodging, grow to 20–24" producing 12–18 tillers per plant, each bearing a rice head. Start indoors 4–5 weeks before setting out into warm soil (early June in Maine). Space plants 10–12" apart in rich moist soil and full sun. Heads the first week of August and finishes by late September. Can withstand a light frost. May be direct seeded in warmer regions. Seed crop grown in central Maine. ① **NEW!** MOFGA-certified. ~50 seeds/g.
A=1g, $1.60 **B**=4g, $5.00 **C**=28g, $25.00
D=112g, $90.00

5972BS Black Sorghum *S. nigrum* 6–8' plants topped with robust oval black inflorescences. Shorter and earlier than most sorghums which often reach 12'. Originally from Africa, sorghum is cultured in the South for the sweet syrup of its stalks. In the ornamental trade it is used as a focal point for large arrangements. Harvesting the heads at the right stage can be tricky; gathered too early they are not dark enough, too late they may discolor or shatter. ~60 seeds/g. ②
A=1g, $1.10 **B**=4g, $3.00 **C**=12g, $6.00

5985BH Bravehart Spring Triticale *Triticum* x *Triticosecale* Developed for floral arrangements by Dr. Hal LeFever at Oregon State University who selected for superior disease resistance and adaptation to northern growing conditions. A very decorative wheat/rye cross. Sets 4–5" brown heads with medium-long awns atop 3' stalks. Skinny kernels. ~8 seeds/g. ②
A=4g, $1.00 **B**=20g, $2.50 **C**=60g, $6.00

5995UO Utrecht Blue Spring Wheat OG *T. durum* Wheat is the most widely cultivated plant in the world and this may be the world's most beautiful wheat (though wheat's forerunner Black Emmer would give it a run for the money). It hardly matters (except to seed people) that Utrecht Blue is hard to thresh because it is too beautiful to eat and is used instead for wheat weaving and flower arrangements. Features four rows with blue-grey husks and long black awns. Utrecht is a spring wheat, meaning sow it in April for harvest in September rather than planting later and wintering it over. We are pleased to have a good crop for the first time since 2007. Biodynamically grown but not BD certified.**BACK!** Stellar NOP-certified. ①
A=4g, $1.20 **B**=20g, $4.00 **C**=100g, $12.00

5997BK Banatka Winter Wheat ECO *T. aestivum* We are thrilled to offer this elite heritage winter wheat bred by Eli Rogosa from two superior Eastern European landraces: Ukrainka (originally from Banat, Hungary) described by Russian plant explorer Nikolai Vavilov in the late 1930s as having "high productivity, broad adaptability and excellent baking quality," and Bankuti, beloved in Eastern Europe for its rich flavor. Had the highest yield in three years of SARE-funded organic wheat trials at U. Mass. See growseed.org for details. In early September, plant each seed 8" apart, 12 lb. per acre for the best yield. Wide spacing produces a deep root system that brings up moisture during drought and strengthens the plants during torrential rains for better climate resilience. Undersow with clover to suppress weeds. Harvest for flour when the chest-high plants are greenish-brown or for seed when they are brown, dry and fully mature in mid-late July. **NEW!** ~20 seeds/g. ①
A=2g, $2.10 **B**=4g, $4.00
C=14g, $11.00 **D**=28g, $20.00

Interested in heritage wheat and ancient grains such as Einkorn, Emmer, Persian wheat, Timopheevi, Polanicum and more? CR Lawn and Eli Rogosa were funded by Northeast SARE to trial rare world heritage grains for increased on-farm diversity and climate resilience. Visit **growseed.org** for resources and samples of varieties best-adapted to New England.

…Democracy has disappeared in several other great nations—disappeared not because the people of those nations disliked democracy, but because they had grown tired of unemployment and insecurity, of seeing their children hungry while they sat helpless in the face of government confusion, government weakness—weakness through lack of leadership in government. Finally, in desperation, they chose to sacrifice liberty in the hope of getting something to eat. We in America know that our own democratic institutions can be preserved and made to work. But in order to preserve them we need to act together, to meet the problems of the Nation boldly, and to prove that the practical operation of democratic government is equal to the task of protecting the security of the people.… Fireside Chat 11/14/38

PERENNIAL FLOWERS

Flowers are arranged here mostly by common name. **See chart on pp. 76-77 for uses and cultural information. A botanical index appears on p. 103.**

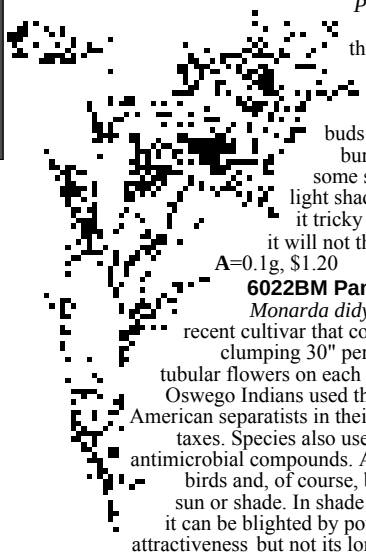
For other perennials, see #4407, 4409, 4412, 4481, 4509, 4510, 4512, 4545, 4547, 4549, 4572, 4577, 4580, 4582, 4584, 4585, 4586, 4588, 4592, 4619, 4632, 4640, 4644, 4648, 4651, 4659, 4664, 4668, 4669, 4674, 4681, 4682, 4686, 4687, 4689, 4692, 4698, 4699, 5502, 5705, 5716, 5736, 5799, 5848, 5963. Also see our Trees catalog for perennial plant crowns.

6008CQ Cerise Queen Achillea *A. millefolium* Also known as Pink Yarrow. Easy to grow and tolerant of drought, heat and poor soil. Beautiful cherry-red flat flower heads 2–4" across on 18" stems with lacy foliage. A good border plant. Feeds many beneficial insects. Needs light to germinate. Start indoors and transplant out. Zones 3-10. ~6,200 seeds/g. ③

A=0.1g, $1.30 **B**=0.5g, $3.50 **C**=3g, $14.00

6020BB Single Alba Baby's Breath *Gypsophila paniculata* Lovely as a border plant in masses, bearing many tiny single white flowers. Great filler for bouquets. Useful as an everlasting if cut before fully opened. May be sown direct, do not cover. Likes well-drained soil. Grows to 3'. Zones 4-8. ~1,270 seeds/g. ②

A=0.7g, $1.10 **B**=7g, $3.00 **C**=21g, $6.00



6021BF Florist Blue Balloon Flower *Platycodon grandiflorum* Developed specifically for the cutflower trade, this 2½–3½' plant bears long-lasting deep blue rounded star-shaped flowers from June to August. Called Balloon Flower because the buds look like inflated balloons ready to burst. Slow to emerge in spring; needs some support once it does. Plant in sun to light shade, 12–18" apart. Taproot can make it tricky to transplant. Avoid wet soil where it will not thrive. Zones 3-8. ~1,100 seeds/g. ③

A=0.1g, $1.20 **B**=0.4g, $3.00 **C**=2g, $6.00

6022BM Panorama Red Shades Bee Balm *Monarda didyma* Also known as Oswego Tea. A recent cultivar that comes true to color from seed. Bushy clumping 30" perennial bears 1–2 whorls of true-red tubular flowers on each stem from mid to late summer. The Oswego Indians used the species for tea as did the colonial American separatists in their struggles with the British over tea taxes. Species also used medicinally for its antiseptic and antimicrobial compounds. Attractive to butterflies, hummingbirds and, of course, bees, Monarda can grow in either sun or shade. In shade its bloom time is lengthened but it can be blighted by powdery mildew (which lessens its attractiveness but not its longevity). Direct seed or transplant, surface sow in spring or summer, takes 14 days to germinate. Zones 4-9. Among perennials, our best seller except for the mixes. ~2,000 seeds/g. ②

A=0.02g, $1.40 **B**=0.06g, $3.20 **C**=0.24g, $8.00

Seed Longevity for Herbs and Flowers

This information has been hard to find. Here we have integrated results from several tables with our own first-hand knowledge drawn from testing old lots for germination. Seeds stored in less than ideal conditions will have shorter life spans. Plant name is followed by years.

achillea	2	dahlia	2	nigella	1
acroclinium	3	delphinium	1	oregano	2
alyssum	3	dianthus	3	pansy	2
amaranth	3-5	didiscus	3	penstemon	2
anise	3	digitalis	2	petunia (unpelleted)	5
aster	1	dill	3	phlox	1
baby's breath	2	fennel	3	poppy	3
bachelor button	3	four o'clock	2	portulaca	3
basil	5+	gaillardia	2	rue	2
borage	5+	hollyhock	3	sage	3
calendula	3	honesty	2	salpiglossis	3-5
campanula	3	impatiens	2	salvia	1
candytuft	2	immortelle	2	savory	3
caraway	3	larkspur	1	scabiosa	3
catnip	5	lavatera	3-5	snapdragon	3
celosia	3-5	lavender	5	statice	2
chinese lantern	1	lemon balm	5	stock	3
chives	1	lobelia	3	strawflower	2
chrysanthemum	3	lupine	2	sweet pea	3
cilantro	5+	marigold	3	sunflower	3
clarkia	2	marjoram	3	thyme	3
columbine	2	nasturtium	3-5	tithonia	2
coreopsis	2	nicotiana	3	zinnia	3-5

6028BC Blue Clips Bellflower *Campanula carpatica* Masses of light azure bellflowers dance 8" high above a tidy mound of foliage. A very hardy perennial that is easy to grow, Blue Clips will bloom in sun or partial shade from June to October. Zones 4-10. ~12,000 seeds/g. ②

A=0.05g, $2.60 **B**=0.2g, $10.00

6034BW Butterfly Weed *Asclepias tuberosa* Also called Pleurisy Root. Native to North America and widely adapted, this bright sun-loving perennial provides a bold splash of orange from June until frost. Vigorous mounded 2x2' plants bear broad 5" heads of waxy flowers attractive to butterflies. Both the flowers and pointed seedpods are useful for cutflower arrangements. Native Americans used roots to combat lung and throat troubles and to soothe wounds and sores. Germinates in 3 weeks at 70 °. Choose a permanent site with well-drained fertile sandy soil because its tuberous roots do not like to be disturbed. Direct sow in spring or fall, thinning to 18–24". Cut when at least half the flowers are open. Use caution when handling cut Butterfly Weed as sap can severely irritate eyes. Exceptionally drought-tolerant. Zones 4-9. ~200 seeds/g. ②

A=0.5g, $1.10 **B**=2g, $3.00 **C**=6g, $6.00

6038PC Persian Catmint *Nepeta mussinii* While we can't duplicate the lavender fields of Provence, we can achieve similar visuals by planting catmint. Its soft grey-green leaves clothe wiry 1' stems crowned with clusters of bluish-lavender tubular flowers. A member of the mint family, it grows rapidly in rich moist soils, but in sandy drier conditions can be contained. Plant early for blooms the first year. Thereafter will flower for 6 weeks from early spring to summer. Shear plants after blooming to encourage repeat blooms and to diminish self-sowing. Plant in full sun 2' apart. Zones 4-8. ~1,200 seeds/g. ②

A=0.1g, $1.10 **B**=0.3g, $2.80 **C**=1.2g, $5.50 **D**=6g, $12.00

COLUMBINE *Aquilegia* spp.

Columbines are an essential part of the cottage garden or border. Their delightful flowers in mixed colors bloom in spring and dance above attractive lobed leaves. Easy to grow, likes moist well-drained soil, sun or partial shade. Need light to germinate; take 3–4 weeks. Zones 3-10. **~800 seeds/g.**

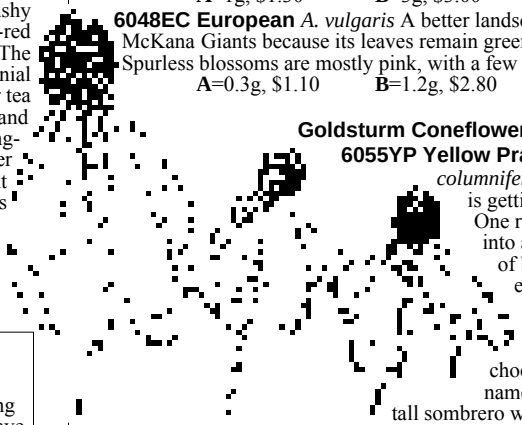
6042SE Mrs. Scott Eliot Mixed *A. caerulea* Free-blooming white, red, lavender and pink spurred flowers rising to 30" on strong stems. Pre-chill seed 3–4 weeks. Will bloom 1st season if seeds are sown indoors in early spring. Do not cover. Flowers May and June, attracts hummingbirds. ②

A=1g, $1.30 **B**=3g, $3.00 **C**=9g, $7.00

6048EC European *A. vulgaris* A better landscape plant than Mrs. Eliot or McKana Giants because its leaves remain green through the whole season. Spurless blossoms are mostly pink, with a few purples and whites. 2½'. ②

A=0.3g, $1.10 **B**=1.2g, $2.80 **C**=6g, $5.00

Goldsturm Coneflower See Rudbeckia, #**6269**.



6055YP Yellow Prairie Coneflower *Ratibida columnifera* One of the joys of my job is getting to visit so many gardens. One recent summer, I was enticed into a field by a yellow fluttering of ballerina flowers dancing on erect 1–3' slender stems. As I approached, I could see that the yellow merely skirted around a protruding chocolate column. The common name Mexican Hat—conjuring a tall sombrero with a drooping brim—seems far too sedentary for this flower. Prairie grasslands native likes full sun, blooms May through August, undaunted by drought. Zones 3-9. ~1,830 seeds/g. ②

A=1g, 90¢ **B**=4g, $2.50 **C**=16g, $5.00

6062BH Bressingham Hybrids Coral Bells *Heuchera sanguinea* Palest pink to deepest crimson sprays of graceful bells rise 18" above hardy mounds of heart-shaped foliage. Their compact habit makes coral bells excellent for low borders and rockeries. Start indoors in cool place 8–10 weeks before setting out. Needs light to germinate. Likes good soil and partial shade, but will tolerate full sun. *Unless sales improve this is the last year we will offer.* Zones 4-10. ~20,000 seeds/g. ②

A=0.1g, $1.80 **B**=0.5g, $7.00 **C**=2g, $26.00

6068ES Early Sunrise Coreopsis *C. grandiflora* Won 1989 AAS for its ability to bloom weeks earlier than other Coreopsis. Dense well-branched 18" plants are loaded with 2" semi-double vivid golden-yellow blooms loved by syrphid flies, lady beetles, lacewings, parasitic wasps and many other beneficials. Start indoors 8–10 weeks before setting out in sunny spot, 12–18" apart. Do not cover seed. Harvest when flowers start to open. Zones 3-10. PVP. ~400 seeds/g. ⑤

A=0.1g, $1.40 **B**=0.3g, $3.20 **C**=0.9g, $7.00

"I like the addition of the flower and herb seed viability chart and of course all the great political stuff."
—Gilda Outremont, Mad Mares Farm, Bethany, CT

DELPHINIUM x *cultorum*

The Pacific Giants were developed in California after World War II. Magnificent dense racemes make delphinium excellent in the border and as a cutflower. Old seed goes dormant and is very hard to reawaken so order fresh seed each year. Prechill seed for 2–4 weeks, then germinate at 65–75˚ and grow on at 50–60˚. Likes sun, moist rich soil, can tolerate some shade. Heavy feeder; sidedress in spring with well-composted manure. Harvest when one fourth of the flowers are open. Zones 3-7. **~450 seeds/g**.

6080AD Astolat Pacific Giant Pastel mix in lilac, raspberry and rose with dark bees. 6'. ②
A=0.2g, $1.30 **B**=0.6g, $3.20 **C**=1.8g, $7.50

6084KN Black Knight Pacific Giant Intense dark purple with black bees. Stately and breathtaking. 6'. ②
A=0.2g, $1.30 **B**=0.6g, $3.20 **C**=1.8g, $7.50

6088SS Summer Skies Pacific Giant Light azure-blue with white bees. 6'. ②
A=0.2g, $1.30 **B**=0.6g, $3.20 **C**=1.8g, $7.50

6098CY Connecticut Yankee Mix Dwarfed version grows only 3'; good where wind is a problem. 1965 AAS in blue, purple, lavender and white. ③
A=0.25g, $1.40 **B**=1g, $5.00 **C**=3g, $12.50

6110FD Foxy Digitalis *D. purpurea* Also known as Foxglove. 1967 AAS. A breeding breakthrough allows this biennial to bloom the first season. Foxy starts blooming when only 18" high, just 5 months from seed, and continues with up to 9 spikes apiece as it grows to a mature 3'. Each spike is covered with dangling thimble-shaped flowers which range from creamy yellow to pinks, with attractive interior spotted markings. Stems are short for cutflowers. *Entire plant is poisonous.* Start at 65–70° and grow on at 58–62° at night. Do not cover the seed. Zones 4-10. ~10,000 seeds/g. ③⑤
A=0.4g, $1.20 **B**=2.4g, $4.00 **C**=12g, $14.00

6120BF Blue Flax *Linum perenne* subsp. *lewisii* Also known as Prairie Flax. Single light-blue flowers with finely cut foliage for borders or rock gardens. New flowers open every morning all summer, fade in afternoon heat. Likes full sun. Very drought tolerant. 9–12". Start indoors in a cool place 6–8 weeks before setting out or direct seed in cool soil in spring or fall. Zones 4-9. ~750 seeds/g. ②
A=1g, 90¢ **B**=7g, $2.20 **C**=28g, $5.00

6126FN Forget-Me-Not *Myosotis sylvatica* The older I get, the more I want to be surrounded by plants that care for themselves. This little charmer, a biennial or short-lived perennial that self-seeds for many years, fits the bill. Excellent grown in a mixed border, where they peek out atop 6" stems with clusters of sky-blue color. They tolerate a wide range of conditions and grow in both sun and shade. Now if only I can *remember* not to weed them out the following spring. Zones 3-9. ~1600 seeds/g. ②
A=0.1g, $1.00 **B**=0.5g, $2.50 **C**=3g, $5.00

GAILLARDIA spp.

Also known as Blanketflower. Low-maintenance bicolor prairie native likes light dry well-drained soil and full sun. See #**5165** for an annual Gaillardia.

6128BG Burgundy *G. aristata* When I first laid eyes on this in a nursery, it stood out from the pack. Burgundy has all the toughness of a prairie native enhanced with the solid deep wine color of a sophisticated garden-tour specimen. 3–4" daisy-like flowers bloom all summer on 2–3' plants. A favorite of butterflies and of gardeners who like to bring cutflowers inside. Plant 18–24" apart. Zones 4-10. ~280 seeds/g. ③
A=0.25g, $1.10 **B**=1g, $2.80 **C**=4g, $6.50

Grandiflora Mix *G. grandiflora* Supplier has dropped this variety; *no longer available.*

6137SS Summer Sun Heliopsis *H. scabra* Also known as Ox Eye and False Sunflower. You've probably seen this showy rugged informal perennial that could almost pass as a sunflower. 3–6' plants bear durable 2–3" golden-yellow semi-double flowers from midsummer till early fall. Bushy habit well-suited for the back of a border. Also able to stand alone to provide a spot of color. Blooms the first year from seed and makes long-lasting cutflowers. Germinates in 3 weeks at 70 °. Prefers full sun and well-drained soil. Zones 4-8. ~200 seeds/g. ②
A=1g, $1.10 **B**=6g, $3.50 **C**=30g, $15.00

6139SB Southern Belle Mix Hibiscus *H. moscheutos* You won't want to be too casual about where you place this Belle because she's a massive shrub, growing as much as 5' tall and 5' across. Great as a specimen in the back of a perennial border, she offers a tremendous show of color. Donna Dyrek's daughter Abundance counted 125 buds waiting to open! When they did they produced giant flowers up to 10" in deep shades of pink, red and white with a contrasting crimson eye. Overwintered in Zone 4 without mulch in the mild winter of 2009-10, first blossoming on Aug. 1, 2010. Probably needs a thick mulch most winters in northern areas. Slow to emerge in the spring but then grows like crazy. Heat loving, but notwithstanding her name, tolerates a wide range of conditions. Zone 5-10. ~80 seeds/g. ⑤
A=0.1g, $2.00 **B**=0.6g, $9.00 **C**=2.4g, $30.00

HOLLYHOCK *Alcea rosea*

An old-time favorite for background color. Biennial, will reseed in a good year. Needs staking. Cut flower stalk to induce rebloom. Likes full sun, lots of room, and moist soil. Seed may require alternate freezing and thawing to break dormancy. Start indoors in a 70˚ spot 2 months prior to transplanting. Zones 3-8. ~105 seeds/g.

6140CD Chater's Double Mix Double flowered in shades of red, pink, yellow and white. Dates back to the 1880s. 4–5'. ②
A=1g, $1.10 **B**=5g, $2.80 **C**=15g, $7.00

6146SM Indian Spring Single Mix Old-fashioned single 7' beauty in shades of red, yellow, white and rose. Favored by hummingbirds. 1939 AAS. ②
A=0.25g, $1.00 **B**=1g, $2.50 **C**=3g, $5.00

6152BH Black Hollyhock *A. r.* var. *nigra* Shimmering burgundy-black single flowers characterize this heirloom hollyhock that blooms the second year. Lasts 3–4 years in favorable conditions. Surface sow inside in April. Overly rich potting mixes will encourage damping off. May be the same black hollyhock grown by Thomas Jefferson at Monticello. ②
A=0.25g, $1.20 **B**=1g, $3.00 **C**=4g, $7.00

6160JL Blue Pearl Jacob's Ladder *Polemonium caeruleum* (90 days) A staple of the shade garden in cooler climes. Where so few plants flower, Blue Pearl shines! Sky blue 1–1 1/2" cup-shaped blooms with distinctive gold stamens flower from late spring to early summer except in extreme heat. The compact 1' long-lived plants are ideally planted 1' apart in partially shaded borders, at the edge of woodlands or at the base of small shrubs or roses. Called Jacob's Ladder for the arrangement of parallel leaflets along the stem. Makes a beautiful cutflower. Zones 3-8. ~850 seeds/g. ③
A=0.1g, $1.20 **B**=0.5g, $3.00 **C**=2g, $5.50

6170HM Helen Mount Johnny-Jump-Up *Viola tricolor* Also known as Heartsease Pansy. This 4–6" favorite bears tricolor blooms in violet, lavender, and canary yellow. Small abundant flowers like partial shade. Can be direct seeded early spring for flowers late in season or sown in fall for earlier blooms the following year. Some call it invasive, others enjoy its cheerful spreading habit. Flowers make edible decorations with a faint wintergreen taste. Zones 3-9. ~900 seeds/g. ②
A=0.5g, $1.10 **B**=1.5g, $2.80 **C**=4.5g, $5.00

LUPINE *Lupinus polyphyllus*

Lupine fanatic George Russell of York, England, bred Russell Hybrids Choice Mix, introduced it in 1937 and won the coveted Gold Medal from the Royal Horticultural Society. Dense spikes with large flowers in full range of colors. They like a cool moist spot in full sun, preferring sandy soil with ample room for their roots to spread. Can be sown indoors in late winter, or outdoors in early spring or late fall. 3'. *Seeds and seed pods are poisonous.* Zones 4-9. **~35 seeds/g**.

6184MC My Castle Red Russell In most lupine mixes the red shades are overshadowed by a preponderance of blues. The genetics of lupines are such that, as a patch crosses and self-sows, over time the blues will dominate. So now you can revitalize your patch with a new burst of red. Or, grown separately where they will not cross, you can maintain a solely red patch. ②
A=1g, $1.10 **B**=4g, $2.80 **C**=16g, $5.50

6186RL Russell Hybrids Choice Mix Grew mostly purple blooms in our lot grow-out. ②
A=1.4g, 90¢ **B**=7g, $2.50 **C**=28g, $5.50

Maiden Pink *Dianthus deltoides* Alas, this maiden is no more. *Dropped for slow sales.*

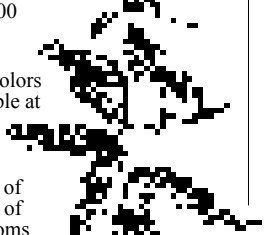
6204MC Maltese Cross *Lychnis chalcedonica*. Desirable 3' border plant attracts hummingbirds and butterflies and is excellent for cutflowers. Produces brilliant scarlet florets, each flower a five-part cross. Makes a hot color combination with Rudbeckia and Coreopsis. Thomas Jefferson grew these at Monticello in 1807. Start indoors in early spring or midsummer for blooms next year. Do not cover seeds. Likes moist soil and full sun. Zones 3-10. ~2,000 seeds/g. ③
A=0.4g, $1.00 **B**=2g, $2.50 **C**=6g, $5.00

6210RM Iron Maiden Penstemon *P. barbatus* If we ever close Gitmo maybe someone will also have the good taste to give this beautiful plant a more appropriate name that does not conjure images of torture. Lovely perennial cutflower sends up bright scarlet tubular flowers on tall slender spikes above lance-shaped leaves. Hummingbirds love these late-summer blossoms. Maybe its name is in honor of its bold color that is not for the faint of heart. More likely for its indestructibility and tireless performance in the border. Sow indoors late winter to mid spring. Likes full sun. Drought-tolerant. Zones 4-9. ~550 seeds/g. ③

A=0.2g, $1.40 **B**=0.8g, $4.00 **C**=4g, $13.00

6234PH New Hybrids Mix Phlox *P. paniculata* F-1 hybrid. Perennial phlox blooms from June till frost. Excellent for borders and cutflowers. Mix of white, pinks, reds and lilacs. Freeze seeds 10 days before sowing indoors, or direct seed in cold soil. Slow germinator, takes 3–4 weeks. Likes full sun. 3'. Zones 3-9. ~111 seeds/g②

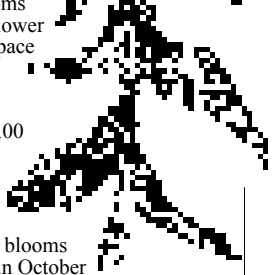
A=0.1g, $1.10 **B**=0.3g, $2.80 **C**=0.9g, $6.00



6240RP Flamenco Red Hot Poker *Kniphofia uvaria* You won't need to build a casino to get into this game of poker. If you get your thrills from hot colors rather than hot hands, this Red Hot Poker is no gamble at all. Our ante is only $1.40 and there will be many winners. It will flower the first year up to four weeks earlier than other standard varieties, setting spectacular 8" spikes atop sturdy 32" stems, in a riot of yellow, orange and fiery red tubular flowers. A field of these along the road can take your breath away. Blooms July-September and makes an unusual accent in cutflower arrangements. Likes well-drained sunny locations. Space at 18–24". For overwintering, mulch to protect the crowns from moisture and heaving. AAS. Zones 5-9. ~450 seeds/g. ②

A=0.04g, $1.40 **B**=0.12g, $3.00 **C**=0.36g, $6.00

Gartford Giants Mix Poppy *Papaver nudicaule* Dropped by our supplier; *no longer available.*

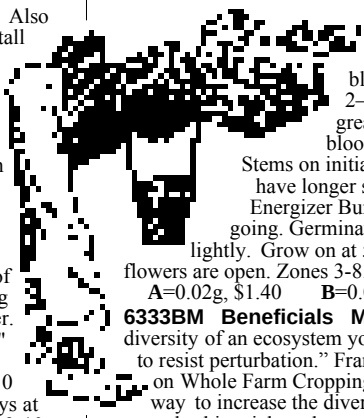


6254AP Dwarf Allegro Oriental Poppy *P. orientale* Long-lived perennial grows 16". Fuzzy fern-like leaves, showy buds open to dazzling scarlet blooms with contrasting black eyes. Sow in June, transplant in October for flowers the following summer. Fits well with border perennials and ornamental grasses because plants go dormant after spring flowering. Zones 2-8. ~5,000 seeds/g. ③

A=0.05g, $1.40 **B**=0.2g, $3.50 **C**=0.6g, $9.50

6266QM Queen of the Meadow ECO *Eupatorium purpureum* Also known as Joe Pye Weed or Gravel Root. A "queenly" native: stately, tall and beautiful, with dense florets of dusty pinkish-purple flowers and foliage that releases the scent of vanilla when crushed. At 5–9' tall, makes an impressive background plant and a good cutflower. Medicinally, the root is used to treat chronic irritable bladder, urinary infections, kidney stones, menstrual cramps and prostate infections. Also stimulates circulation and reduces inflammation. Does best in moist well-drained areas, full sun or part shade. Surface sow in spring or fall; needs stratification unless sown in fall; takes 3 weeks to germinate; direct seed or transplant. Zones 4-9. ~2,809 seeds/g. ②

A=0.02g, $1.20 **B**=0.1g, $3.00 **C**=0.4g, $6.50



6269GS Goldsturm Rudbeckia *R. fulgida* Domesticated cousin of the beloved Black-Eyed Susan, Goldsturm offers a profusion of shining golden-yellow flowers with dark central cones in August and September. Hardy perennial transplants well and has much larger flowers—up to 5" across—than its wild counterpart. The 2' plants have long strong stems ideal for cutting. Likes sunny, well-drained locations. Start indoors 8–10 weeks before last frost. Do not cover the seed. Germinates in 14–21 days at 70°. Transplant after danger of frost, spacing 12–18" apart. Zones 3-10. ~1,105 seeds/g. ②

A=0.1g, $1.20 **B**=0.4g, $2.80 **C**=1.2g, $6.00

6272SD Alaska Strain Shasta Daisy *Leucanthemum* x *superbum* The first man-made flower, hybridized by the legendary Luther Burbank. It took him 17 years. His daisy looks good with Gaillardia and Coreopsis. The clean white flowers with bright yellow centers make good cutflowers and border plants for sunny locations. One of the easiest perennials to grow; will usually bloom first year if started indoors in spring and transplanted when soil warms. 3'. Zones 4-10. ~750 seeds/g. ②

A=0.5g, 90¢ **B**=4g, $2.20 **C**=16g, $5.00

6274CD Crazy Daisy *L.* x *superbum* We're crazy for this daisy because its quilled petals make it unlike any other in the Shasta class. Almost all of the 2½–3" creamy white blossoms are fully double and reminded us of dahlias. Bloomed the second year for Donna Dyrek starting on July 6 and put on a good show for nearly a month. The later blossoms were less doubled, showing the small yellow centers more. Required no protection to overwinter in Central Maine, but mulching is recommended for cold areas. 24–28" plants like a well-drained location in full sun. Need a cold period and long days to initiate bloom. Zones 4-10. ~900 seeds/g. ②

A=0.1g, $1.30 **B**=0.3g, $3.00 **C**=1.2g, $6.00

6282SZ Helena Mix Sneezeweed *Helenium autumnale* Also known as Sunny Bride. Supposedly used for snuff in earlier times, hence its common name. A rich chromatic scale of bronze, brown, crimson and yellow for an end-of-summer display. Single flowers resemble Coreopsis but have a large center "button" like coneflower, and cover the tops of branching upright 4–5' plants. Combine with asters and phlox for great late-season color. Not fussy, easy to grow, excellent for cutting. At its prime when most perennials have finished blooming. Generally a low germinator; needs 2–3 weeks. Zones 3-10. ~5,000 seeds/g. ②

A=0.05g, $2.50 **B**=0.2g, $9.00 **C**=0.6g, $25.00

6296PP Perennial Sweet Pea *Lathyrus latifolius* The traditional English cottage sweet pea, grown by Jefferson in 1771, thrives in cool climates, loves sun and climbs 6'. Useful as a screen. Comes in shades of rose, white and pink in big clusters. Good cutflowers. Soak seeds up to 24 hours before sowing outdoors in early spring. Can take 3–4 weeks to germinate. Zones 3-10. ~20 seeds/g. ③

A=1g, $1.10 **B**=3g, $2.50 **C**=12g, $5.50

6306SW Double Choice Mix Sweet William *Dianthus barbatus* A fragrant self-sowing biennial in red, pink, white, lavender or mixed colors. Germinates in 7–14 days at 70 °. May be started 2 months before setting outdoors, or direct seeded in late summer or fall. Requires full sun and good drainage, likes lime. 18". Zones 4-10. ~930 seeds/g. ②

A=0.5g, 90¢ **B**=7g, $2.20 **C**=28g, $5.50

6316CT Creeping Thyme *Thymus serpyllum* Also known as Mother-of-Thyme or Brotherwort. Creeping sweet-scented ground cover with purple flowers good in rock gardens, between stepping stones, or on dry slopes. Likes good drainage, full sun and alkaline soil. Plants grow slowly from seed, may be started indoors 2 mos. before planting, or outside in early spring or fall. Sow thickly, do not cover seeds. 2". Zones 3-10. ~6,290 seeds/g. ②

A=0.1g, $1.10 **B**=1g, $2.80 **C**=3g, $5.00 **D**=30g, $30.00

6322VH Southern Charm Verbascum *V.* x *hybrida* F-1 hybrid. These dramatic plants, related to yellow mullein, have become very trendy. Strong 2–3' stalks generate gorgeous two-tone 1 ½" blossoms in marvelous pastel combinations of peachy rose, creamy gold, and lavender each with a fuzzy rosy-purple center. Multiple stalks on each plant are covered with short-lived flower pairs that open successively from bottom to top and make an extended show. Some rebloom in September, especially if you cut the spent flower stalks. Takes 2–3 weeks to germinate, blooms the first year. Set out 1' apart in full sun, well-drained soil. Zones 5-9. ~1,000 seeds/g. Pelleted seed sold by count. ⑤

A=20 seeds, $2.60 **B**=100 seeds, $12.00 **C**=300 seeds, $33.00

6326SV Sightseeing Mix Veronica *V. spicata* Also known as Speedwell. A wonderful mix of pink, white and blue-violet flowers—glorious when they're all blooming together. Growing uniformly to 2–2½' with erect pointed spikes, makes a great border, also a superb cutflower. Will bloom the first year if started early indoors. Stems on initial blooms are short; subsequent blooms have longer stems. One customer compared it to the Energizer Bunny that just keeps going and going and going. Germinates 10–14 days at 68–72°; cover the seed lightly. Grow on at 55–65 °. Harvest when nearly half the flowers are open. Zones 3-8. ~10,000 seeds/g. ②

A=0.02g, $1.40 **B**=0.06g, $3.00 **C**=0.18g, $7.00

6333BM Beneficials Mix "When you increase the diversity of an ecosystem you enhance its ability to maintain itself and to resist perturbation." Frank Morton inspired 75 seed growers with his talk on Whole Farm Cropping Systems at a Restoring Our Seed seminar. One way to increase the diversity of your ecosystem is to sow this mix of annuals, biennials and perennials that will attract and maintain a diverse population of beneficial insects to help manage pests in the garden. Instead of resorting to toxic sprays, attract hover flies, ladybugs, lacewings, parasitic wasps, tachnids, spiders, minute pirate bugs, damsel flies and big-eyed bugs and let them devour the "bad" bugs! Something in the mix will be blooming from spring through fall. Comprised of alyssum, bachelor's button, borage, gem marigold, dill, fennel, *Phacelia tanacetifolia* or fiddleneck, caraway, parsley, golden marguerite, ajuga, basket of gold alyssum, and Rocky Mountain penstemon. Should any variety become unavailable we will substitute one with similar efficacy. Sow as a hedgerow in a well-prepared weed-free seedbed close to the garden in spring in full sun. Edged out # **6336** Wildflower Mix in 2011 for our top-selling perennial. ③

A=1.4g, $1.70 **B**=7g, $7.50 **C**=28g, $22.00 **D**=112g, $75.00

6336WF Wildflower Mix for the Northeast. A blend of 19 perennial and self-sowing annual species native to or naturalized in northeast U.S. and Canada. Includes shasta daisy, black-eyed Susan, New England aster, gayfeather, sweet william, bachelor's button, echinacea and scarlet flax. Broadcast in spring or fall in a well-prepared weed-free seedbed in a sunny spot. Seed at a rate of 1 lb/4500 sq. ft. ~2,143 seeds/g. ③

A=1.4g, 90¢ **B**=7g, $2.50 **C**=28g, $6.00 **D**=1lb, $38.00

"You are the best seed company out there!"
—Andrea Davis-Cetina, Quarter Acre Farm, Sonoma, CA

DISCOUNTED SPECIALS

We know you love bargains and we hate to disappoint you. We're likely to run out of many of these discounted specials during our late January rush. Please order early.

6402CH Cherry Belle Radish Old Strain *Raphanus sativus* (25 days) A good smooth red-skinned bunching radish making balls 3/4" across with firm white flesh. Discontinuing because we found off-types in this strain in our lot grow-out. We have 27 lb. at 92% germination. Heavily discounted for clearance. ②③

A=1/8oz, 50¢ **B**=1/2oz, 80¢ **C**=1oz, $1.20 **D**=4oz, $2.50

6403PT American Purple Top Rutabaga *Brassica napus* (95 days) Purple-top roots with pale yellow flesh. Excellent uniformity; good for storage. Replaced by #**2398** Laurentian. We have almost 20 lb. seed at 87% germination. ②

A=1/8oz, 60¢ **B**=1/2oz, $1.30 **C**=1oz, $2.20 **D**=4oz, $4.50 **E**=1lb, $10.00

6418RC Ruby Chard Mix *Beta vulgaris* (Cicla group) (59 days) A mixture of conventional and certified organic Rhubard Chard seed. We have 36 lb. at 78% germination. These strains had some color variation and some quick bolters in our grow-out. Price drastically reduced for quick sale.

A=1/16oz, 50¢ **B**=1/8oz, 80¢ C=1/2oz, $1.00 **D**=1oz, $1.80 **E**=4oz, $4.00

6427DB Danish Ballhead Cabbage *Brassica oleracea* (capitata group) (100 days) Open-pollinated. Grows 5–7 lb. almost perfectly round hard blue-green heads by late summer that hold till ready for storage in October without splitting. Stores till late spring with a pleasing texture and flavor. Our lot grow-out showed two distinctly different strains so we discontinued Ballhead until we can locate a more reliable source. Seed germinates at 86%.②

A=2g, 60¢ **B**=4g, $1.00 **C**=14g, $2.20

6432CP Chilipeño Pepper *Capsicum annuum* (65 days) This jalapeño/chile cross is productive whether the summer is hot and dry or cold and damp. Its thick-walled 4" glossy fruits taper to a blunt point. Starting out green with a purplish-black blush, they ripen deep scarlet red and pack heat like a jalapeño. Adds excellent flavor, medium heat to salsa. Also good for roasting. Supplier says may display some genetic variability. We have about 135 packets remaining at 87% germination. ②

A=0.1g, $1.70

6435RO Speckled Roman Tomato OG *Lycopersicon esculentum* (85 days) Open-pollinated. Ind. Rich tomatoey sweetness and good texture. Red cylindrical fruits covered with orange-yellow striations, something like an Amish Paste with stripes from an Orange Banana. Plants bear an early abundance of meaty 4–5 oz. fruits with distinctive nipples. Discontinued because very susceptible to disease in cool wet seasons. .16 lb on hand at 87% germination. OT-certified. ①

A=0.2g, $1.00 **B**=0.4g, $1.60 **C**=1g, $2.50

6437SC Sweet Chelsea Cherry Tomato *L. e.* (68 days) F-1 hybrid. Ind. Reliable heavy producer of luscious big round cherries on rampant vines, starting early and continuing throughout the season. Wide disease resistance, including TMV and F. The trade is dropping this variety so this is your last chance. 92% germination. ⑤

A=0.2g, $2.50

6438RR Multicolored Red Rubin Basil *Ocimum basilicum* (78 days) Highly ornamental dark purplish-bronze foliage. Tested for fusarium. Had about one-third green leaf throwbacks in our lot grow-out this year. Discontinuing in favor of a truer strain. Germ tested at 80%. ③

A=0.5g, $1.00 **B**=2g, $2.50 **C**=10g, $5.00

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